

**Flood Control Project Maintenance
Levee Inspections**
LMA District Cover Sheet
Spring 2017 Levee Inspection Results

Sutter Maintenance Yard Maintenance Area 0005

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
† Overall LMA Rating (Fall Only)				

** Non-receipt of Summer or Winter Inspection
Reports may effect overall annual rating.

† SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports. This rating is not intended to be an indication of risk.

Comments

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2017 Levee Inspection Results

Sutter Maintenance Yard Maintenance Area 0005

Waterway			Bank	Unit Miles
Unit No. 01 Butte Creek			Left	15.08
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	5/2/2017 - 5/2/2017			
DWR Inspector	Bob Duffey			
Accompanied By	Shawn Freitag Sutter Maintenance Yard			

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek	Left	15.08	05/02/2017 05/02/2017	Bob Duffey

LM Start		Rating **	A	Issue No.	11
LM End		Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Operations & Maintenance Manuals			°	°
				°	°
DWR ID	DWR_MA0005_01_s_2013_11				
Comment Code					
Inspector Comment					
The LMA has the O&M manuals.					

No Photos

LM Start		Rating **	A	Issue No.	12
LM End		Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Emergency Supplies & Equipment			°	°
				°	°
DWR ID	DWR_MA0005_01_s_2013_12				
Comment Code					
Inspector Comment					
The LMA has adequate flood fight supplies and equipment.					

No Photos

LM Start		Rating **	A	Issue No.	13
LM End		Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Flood Preparedness & Training			°	°
				°	°
DWR ID	DWR_MA0005_01_s_2013_13				
Comment Code					
Inspector Comment					
The LMA completed flood fight training in 2014.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek	Left	15.08	05/02/2017 05/02/2017	Bob Duffey

LM Start	0.05	Rating **	M	Issue No.	45
LM End	0.05	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			39.696790 °	39.696790 °
				-121.774154 °	-121.774154 °
DWR ID	DWR_MA0005_01_f_2016_45				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
Remove wood logs from the waterside slope and trim trees to at least five feet above the levee slope.					

Photo 1 of 1 : SP_2017_MA0005_196_45_20170315_00022.jpg



View of the wood logs on the landside slope.

LM Start	0.07	Rating **	M	Issue No.	46
LM End	0.07	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.696611 °	39.696611 °
				-121.774349 °	-121.774349 °
DWR ID	DWR_MA0005_01_f_2016_46				
Comment Code					
S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.					
Inspector Comment					

Photo 1 of 1 : SP_2017_MA0005_196_46_20170315_00023.jpg



View of the damaged slope by foot traffic.

LM Start	0.08	Rating **	M	Issue No.	47
LM End	0.08	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.696476 °	39.696476 °
				-121.774582 °	-121.774582 °
DWR ID	DWR_MA0005_01_f_2016_47				
Comment Code					
PR : Prunings					
Inspector Comment					
Remove prunings on the waterside and landside slopes to allow visibility.					

No Photos

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek	Left	15.08	05/02/2017 05/02/2017	Bob Duffey

LM Start	0.56	Rating **	M	Issue No.	903
LM End	0.56	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.690745 °	39.690745 °
				-121.777342 °	-121.777342 °
DWR ID	DWR_MA0005_01_s _ 2012_903				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

LM Start	0.58	Rating **	M	Issue No.	32
LM End	0.68	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			39.690496 °	39.689137 °
				-121.777109 °	-121.776938 °
DWR ID	DWR_MA0005_01_s _ 2014_32				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					

Photo 1 of 1 : SP_2017_MA0005_196_32_20170315_00012.jpg



View of the trees along the landside toe blocking visibility.

LM Start	0.68	Rating **	U	Issue No.	44
LM End	0.77	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.689135 °	39.687968 °
				-121.776929 °	-121.777387 °
DWR ID	DWR_MA0005_01_s _ 2016_44				
Comment Code					
V6 : Landscaping					
Inspector Comment					

Photo 1 of 1 : SP_2017_MA0005_196_44_20170315_00021.jpg



View of oleanders along the landside toe.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek	Left	15.08	05/02/2017 05/02/2017	Bob Duffey

LM Start	0.81	Rating **	M	Issue No.	48
LM End	0.81	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			39.687332°	39.687332°
				-121.777456°	-121.777456°
DWR ID	DWR_MA0005_01_f_2016_48				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

LM Start	0.90	Rating **	U	Issue No.	49
LM End	0.92	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.686087 °	39.685756 °
				-121.777555 °	-121.777540 °
DWR ID	DWR_MA0005_01_f_2016_49				
Comment Code					
FE : Fence					
Inspector Comment					

Photo 1 of 1 : SP_2017_MA0005_196_49_20170315_00024.jpg



View of the wood plank fence at the landside toe.

LM Start	0.98	Rating **	U	Issue No.	50
LM End	1.00	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.684843 °	39.684606 °
				-121.777132 °	-121.776975 °
DWR ID	DWR_MA0005_01_f_2016_50				
Comment Code					
V6 : Landscaping					
Inspector Comment					
Oleanders blocking visibility.					

Photo 1 of 1 : SP_2017_MA0005_196_50_20170315_00025.jpg



View of the oleanders along the landside toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek	Left	15.08	05/02/2017 05/02/2017	Bob Duffey

LM Start	1.01	Rating **	M	Issue No.	51
LM End	1.01	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			39.684497 °	39.684497 °
				-121.776905 °	-121.776905 °
DWR ID	DWR_MA0005_01_f_2016_51				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

LM Start	1.11	Rating **	M	Issue No.	52
LM End	1.14	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			39.683208 °	39.682695 °
				-121.776279 °	-121.776325 °
DWR ID	DWR_MA0005_01_f_2016_52				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

LM Start	1.16	Rating **	M	Issue No.	43
LM End	1.24	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.682402 °	39.681322 °
				-121.776405 °	-121.776506 °
DWR ID	DWR_MA0005_01_s_2016_43				
Comment Code					
V6 : Landscaping					
Inspector Comment					

Photo 1 of 1 : SP_2017_MA0005_196_43_20170315_00020.jpg



View of the overgrown vegetation at the landside toe.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek	Left	15.08	05/02/2017 05/02/2017	Bob Duffey

LM Start	1.24	Rating **	U	Issue No.	42
LM End	1.26	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.681305 °	39.681044 °
				-121.776533 °	-121.776547 °
DWR ID	DWR_MA0005_01_s_2016_42				
Comment Code					
FE : Fence					
Inspector Comment					

Photo 1 of 1 : SP_2017_MA0005_196_42_20170315_00019.jpg



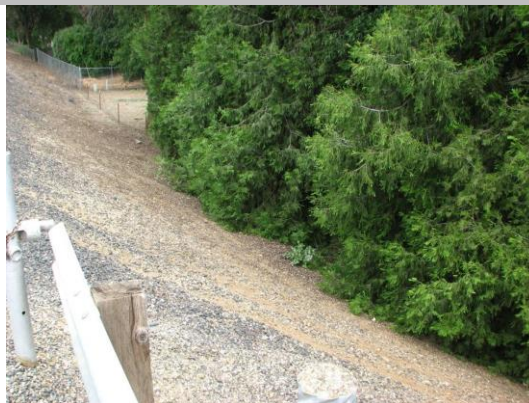
View of the wood plank fence at the landside toe.

LM Start	1.30	Rating **	U	Issue No.	41
LM End	1.36	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.680452 °	39.679551 °
				-121.776667 °	-121.776904 °
DWR ID	DWR_MA0005_01_s_2016_41				
Comment Code					
FE : Fence					
Inspector Comment					
Wood plank fencing across multiple properties.					

No Photos

LM Start	1.45	Rating **	M	Issue No.	40
LM End	1.45	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.678318 °	39.678318 °
				-121.777231 °	-121.777231 °
DWR ID	DWR_MA0005_01_s_2016_40				
Comment Code					
V6 : Landscaping					
Inspector Comment					
Cedar trees need to be trimmed up.					

Photo 1 of 1 : SP_2017_MA0005_196_40_20170315_00018.jpg



View of the overgrown cedar trees on the landside toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek	Left	15.08	05/02/2017 05/02/2017	Bob Duffey

LM Start	1.52	Rating **	M	Issue No.	53
LM End	1.52	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.677240 °	39.677240 °
				-121.777521 °	-121.777521 °
DWR ID	DWR_MA0005_01_f_2016_53				
Comment Code					
DE : Debris					
Inspector Comment					
Remove the pile of soil and rocks on the landside toe.					

Photo 1 of 1 : SP_2017_MA0005_196_53_20170315_00026.jpg



View of the soil and rock pile on the landside toe.

LM Start	1.53	Rating **	M	Issue No.	30
LM End	1.53	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.677130 °	39.677130 °
				-121.777583 °	-121.777583 °
DWR ID	DWR_MA0005_01_f_2014_30				
Comment Code					
EQ : Equipment					
Inspector Comment					

Photo 1 of 1 : SP_2017_MA0005_196_30_20170315_00010.jpg



View of the sprinkler pipe and equipment along the landside toe.

LM Start	1.61	Rating **	M	Issue No.	16
LM End	1.61	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.676129 °	39.676129 °
				-121.778171 °	-121.778171 °
DWR ID	DWR_MA0005_01_s_2013_16				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					

Photo 1 of 1 : SP_2017_MA0005_196_16_20170315_00006.jpg



View of the unauthorized vehicle ramp on the landside slope.

* Location
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

** Rating
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek	Left	15.08	05/02/2017 05/02/2017	Bob Duffey

LM Start	1.64	Rating **	U	Issue No.	34
LM End	1.64	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.675763 °	39.675763 °
				-121.778485 °	-121.778485 °
DWR ID	DWR_MA0005_01_f_2014_34				
Comment Code					
PR : Prunings					
Inspector Comment					

Photo 1 of 1 : SP_2017_MA0005_196_34_20170315_00013.jpg



View of the prunings along the landside toe.

LM Start	1.66	Rating **	M	Issue No.	1
LM End	1.66	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.675528 °	39.675528 °
				-121.778642 °	-121.778642 °
DWR ID	DWR_MA0005_01_s_2012_1				
Comment Code					
DE : Debris					
Inspector Comment					

Photo 1 of 1 : SP_2017_MA0005_196_1_20170315_00001.jpg



View of the construction supply on pallets.

LM Start	1.82	Rating **	M	Issue No.	28
LM End	1.82	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.673390 °	39.673390 °
				-121.779830 °	-121.779830 °
DWR ID	DWR_MA0005_01_s_2015_28				
Comment Code					
PR : Prunings					
Inspector Comment					
Remove the prunings from the landside toe.					

Photo 1 of 1 : SP_2017_MA0005_196_28_20170315_00009.jpg



View of the prunings along the landside toe.

* Location
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

** Rating
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek	Left	15.08	05/02/2017 05/02/2017	Bob Duffey

LM Start	1.88	Rating **	M	Issue No.	35
LM End	1.88	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.672627 °	39.672627 °
				-121.779778 °	-121.779778 °
DWR ID	DWR_MA0005_01_f_2014_35				
Comment Code					
PR : Prunings					
Inspector Comment					
Remove the prunings from the landside toe.					

Photo 1 of 1 : SP_2017_MA0005_196_35_20170315_00014.jpg



View of the prunings along the landside toe.

LM Start	2.09	Rating **	M	Issue No.	10
LM End	2.09	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.670112 °	39.670112 °
				-121.782012 °	-121.782012 °
DWR ID	DWR_MA0005_01_s_2016_10				
Comment Code					
FE : Fence					
Inspector Comment					
No permit was found for the gate.					

Photo 1 of 1 : SP_2017_MA0005_196_10_20170315_00005.jpg



View of the unpermitted gate.

LM Start	2.10	Rating **	M	Issue No.	54
LM End	2.10	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.670018 °	39.670018 °
				-121.781997 °	-121.781997 °
DWR ID	DWR_MA0005_01_f_2016_54				
Comment Code					
PR : Prunings					
Inspector Comment					
Remove the prunings from the landside toe.					

Photo 1 of 1 : SP_2017_MA0005_196_54_20170315_00027.jpg



View of the prunings along the landside toe.

*** Location**

LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek	Left	15.08	05/02/2017 05/02/2017	Bob Duffey

LM Start	2.54	Rating **	M	Issue No.	9
LM End	2.54	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.663876 °	39.663876 °
				-121.784014 °	-121.784014 °
DWR ID	DWR_MA0005_01_f_2012_9				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					

Photo 1 of 1 : SP_2017_MA0005_196_9_20170315_00004.jpg



View of the vehicle erosion along the landside slope.

LM Start	3.06	Rating **	U	Issue No.	37
LM End	3.06	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.656911 °	39.656911 °
				-121.787097 °	-121.787097 °
DWR ID	DWR_MA0005_01_f_2015_37				
Comment Code					
PR : Prunings					
Inspector Comment					
Remove the prunings from the landside toe.					

Photo 1 of 1 : SP_2017_MA0005_196_37_20170315_00015.jpg



View of the prunings along the landside toe.

LM Start	3.21	Rating **	M	Issue No.	38
LM End	3.21	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.654938 °	39.654938 °
				-121.787892 °	-121.787892 °
DWR ID	DWR_MA0005_01_f_2015_38				
Comment Code					
PR : Prunings					
Inspector Comment					
Remove the prunings from the landside toe.					

Photo 1 of 1 : SP_2017_MA0005_196_38_20170315_00016.jpg



View of the prunings along the landside toe.

*** Location**

LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek	Left	15.08	05/02/2017 05/02/2017	Bob Duffey

LM Start	3.42	Rating **	M	Issue No.	31
LM End	3.42	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.652028 °	39.652028 °
				-121.789090 °	-121.789090 °
DWR ID	DWR_MA0005_01_s_2015_31				
Comment Code					
PR : Prunings					
Inspector Comment					
Remove the prunings from the landside toe.					

Photo 1 of 1 : SP_2017_MA0005_196_31_20170315_00011.jpg



View of the prunings along the landside toe.

LM Start	3.60	Rating **	M	Issue No.	39
LM End	3.60	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.649641 °	39.649641 °
				-121.788048 °	-121.788048 °
DWR ID	DWR_MA0005_01_f_2016_39				
Comment Code					
DE : Debris					
Inspector Comment					
Remove pile of soil and wood logs from the landside toe.					

Photo 1 of 1 : SP_2017_MA0005_196_39_20170315_00017.jpg



View of the wood logs and soil along the landside toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek	Left	15.08	05/02/2017 05/02/2017	Bob Duffey

LM Start	3.61	Rating **	M	Issue No.	904
LM End	3.61	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.649522 °	39.649522 °
				-121.787965 °	-121.787965 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:50841
DS_ID:1615
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 11/15/2016 Abandoned- slide gate is opened and inoperable. Needs to be properly abandoned. (DWR Sutter Yard-AFreitag)5/9/2016 Abandoned crossing. Slide gate stem bent and wheel is missing.8/5/2015 Abandoned crossing. Slide gate stem is bent and gate is inoperable. Needs to be properly abandoned.12/8/2014 Same as last inspection.6/11/2014 Same as last inspection.11/20/2013 Same as last inspection.5/29/2013 Same as last inspection.10/30/2012 Pipe appears to be abandoned. Slide gate open and inoperable. Pipe should be properly abandoned. FIELD_STRUCT_DESC: 30-inch corrugated metal irrigation pipe (siphon) through the levee, 10.5 feet below the crown. Slide gate in a corrugated metal riser on the waterside (WS) slope. Concrete distribution box on the landside (LS) toe and concrete overflow and siphon box at the edge of berm. [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual 516, April 1960 (Station 368+17)].
FS Date: 11/21/2016 1:32:46 PM

LM Start	3.61	Rating **	M	Issue No.	904 (cont)
LM End	3.61	Issue Type +	En	Location *	LS

Photo 1 of 3 : UCIP_SP_2017_50841_67928.jpg



Concrete distribution box on LS toe.

Photo 2 of 3 : UCIP_SP_2017_50841_67927.jpg



CMP riser with slide gate on WS shoulder. Notice bent screw in open position.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek	Left	15.08	05/02/2017 05/02/2017	Bob Duffey

LM Start	3.61	Rating **	M	Issue No.	904 (cont)	
LM End	3.61	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			39.649522 °	39.649522 °	
				-121.787965 °	-121.787965 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:50841						
DS_ID:1615						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: 11/15/2016 Abandoned- slide gate is opened and inoperable. Needs to be properly abandoned. (DWR Sutter Yard-AFreitag)5/9/2016 Abandoned crossing. Slide gate stem bent and wheel is missing.8/5/2015 Abandoned crossing. Slide gate stem is bent and gate is inoperable. Needs to be properly abandoned.12/8/2014 Same as last inspection.6/11/2014 Same as last inspection.11/20/2013 Same as last inspection.5/29/2013 Same as last inspection.10/30/2012 Pipe appears to be abandoned. Slide gate open and inoperable. Pipe should be properly abandoned.						
FIELD_STRUCT_DESC: 30-inch corrugated metal irrigation pipe (siphon) through the levee, 10.5 feet below the crown. Slide gate in a corrugated metal riser on the waterside (WS) slope. Concrete distribution box on the landside (LS) toe and concrete overflow and siphon box at the edge of berm. [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual 516, April 1960 (Station 368+17)].						
FS Date: 11/21/2016 1:32:46 PM						

Photo 3 of 3 : UCIP_SP_2017_50841_67926.jpg



Outlet in Concrete overflow box at WS berm.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek	Left	15.08	05/02/2017 05/02/2017	Bob Duffey

LM Start	3.87	Rating **	A/W	Issue No.	905
LM End	3.87	Issue Type +	Ma	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.646217 °	39.646217 °
				-121.785431 °	-121.785431 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:50843
DS_ID:1616
EP_NO: N/A
Repair Type: No Action Needed
Crossing Status: Found
UCIP Comments: 11/15/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)5/9/2016 Crossing appears to be in good condition.8/5/2015 WS pipe end is being overgrown by trees and other vegetation. Needs to be cleared back.12/8/2014 Same as last inspection.6/11/2014 Same as last inspection.11/20/2013 Same as last inspection.5/29/2013 Same as last inspection.
FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 16.5 feet below the crown. Slide gate in a corrugated metal riser on the waterside (WS) slope. Flap gate on the waterside toe. Inlet on the landside (LS) toe, not found. [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual 516, April 1960 (Station 381+36)].
FS Date: 11/21/2016 1:34:00 PM

LM Start	3.87	Rating **	A/W	Issue No.	905 (cont)
LM End	3.87	Issue Type +	Ma	Location *	LS

Photo 1 of 3 : UCIP_SP_2017_50843_67931.jpg



CMP riser and slide gate on WS shoulder.

Photo 2 of 3 : UCIP_SP_2017_50843_67930.jpg



Unable to locate inlet on LS.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek	Left	15.08	05/02/2017 05/02/2017	Bob Duffey

LM Start	3.87	Rating **	A/W	Issue No.	905 (cont)	
LM End	3.87	Issue Type +	Ma	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.646217 °	39.646217 °	
				-121.785431 °	-121.785431 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:50843 DS_ID:1616 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 11/15/2016 Crossing appears to be in good condition. (DWR Sutter Yard- A Freitag)5/9/2016 Crossing appears to be in good condition.8/5/2015 WS pipe end is being overgrown by trees and other vegetation. Needs to be cleared back.12/8/2014 Same as last inspection.6/11/2014 Same as last inspection.11/20/2013 Same as last inspection.5/29/2013 Same as last inspection. FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 16.5 feet below the crown. Slide gate in a corrugated metal riser on the waterside (WS) slope. Flap gate on the waterside toe. Inlet on the landside (LS) toe, not found. [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual 516, April 1960 (Station 381+36)]. FS Date: 11/21/2016 1:34:00 PM						

Photo 3 of 3 : UCIP_SP_2017_50843_67929.jpg



Flap gate in channel at WS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek	Left	15.08	05/02/2017 05/02/2017	Bob Duffey

LM Start	3.90	Rating **	M	Issue No.	906
LM End	3.90	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.645846 °	39.645846 °
				-121.785155 °	-121.785155 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:50846
 DS_ID:1619
 EP_NO: 6544-A
 Repair Type: Non-Urgent
 Crossing Status: Indicator Found
 UCIP Comments: 11/15/2016 Crossing appears to be in good condition. (DWR Sutter Yard- A Freitag) 5/9/2016 Crossing appears to be in good condition. 8/5/2015 Pipe is suspected to cross inside of bridge. 12/8/2014 Same as last inspection. 6/11/2014 Same as last inspection. 11/20/2013 Same as last inspection. 5/29/2013 Same as last inspection. 10/30/2012 Pipeline should be marked where pipe crosses levee as it is 4-feet below the surface.
 FIELD_STRUCT_DESC: 6-inch concrete encased steel high pressure gas pipeline through the levee, 4 feet below the crown. 8-inch diameter Pacific Gas & Electric gas access manhole located on the south side of the road 250-feet east of the levee crown. (Permit No. 6544A, 1969 - Pacific Gas & Electric) [Additional Reference(s): DWR Levee Log, 1990].
 FS Date: 11/21/2016 1:36:44 PM

LM Start	3.90	Rating **	M	Issue No.	906 (cont)
LM End	3.90	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_SP_2017_50846_67936.jpg



PG&E access lid on south edge of roadway.

Photo 2 of 2 : UCIP_SP_2017_50846_67935.jpg



Location of PG&E access lid 250-feet east of levee crown on south side of roadway.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek	Left	15.08	05/02/2017 05/02/2017	Bob Duffey

LM Start	4.13	Rating **	M	Issue No.	27
LM End	4.13	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.643100 °	39.643100 °
				-121.782827 °	-121.782827 °
DWR ID	DWR_MA0005_01_s_2017_27				
Comment Code					
EQ : Equipment					
Inspector Comment					
Agricultural piping on trailer.					

Photo 1 of 1 : SP_2017_MA0005_196_27_20170315_00008.jpg



5/5/2016: Remove equipment from L/S toe.

LM Start	4.32	Rating **	M	Issue No.	65
LM End	4.32	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.640675 °	39.640675 °
				-121.780898 °	-121.780898 °
DWR ID	DWR_MA0005_01_s_2017_65				
Comment Code					
PR : Prunings					
Inspector Comment					
Remove the the prunings from the landside toe.					

Photo 1 of 1 : SP_2017_MA0005_196_65_20170508_00084.jpg



View of the prunings along the landside toe.

* Location
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

** Rating
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek	Left	15.08	05/02/2017 05/02/2017	Bob Duffey

LM Start	5.56	Rating **	M	Issue No.	907
LM End	5.56	Issue Type +	Ma	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.624559 °	39.624559 °
				-121.772141 °	-121.772141 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:50847
DS_ID:1768
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 11/15/2016 Abandoned. Needs standpipe cover.
(DWR Sutter Yard- A Freitag) 5/9/2016 Abandoned pipe. Needs a cover for standpipe. 8/5/2015 Abandoned pipes. Need covers made for tops of standpipes to prevent falls. 12/8/2014 Same as last inspection. 6/11/2014 Same as last inspection. 11/19/2013 Same as last inspection. 5/29/2013 Same as last inspection. Land owner said pipes are abandoned and no longer used. Covers should be made for top of standpipe to prevent falls. Pipes should be properly abandoned. 10/30/2012 Pipe 1/2 filled with soil at slide gate on WS. FIELD_STRUCT_DESC: *ABANDONED* 2 of 2: 36-inch corrugated metal drainage pipe through the levee, 11 feet below the crown. Slide gate in a 54-inch corrugated metal riser on the waterside (WS) slope. Concrete "U" shaped headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 1990. Sacramento O&M Manual 516, April 1960 (Station 470+00)].
FS Date: 11/21/2016 1:38:13 PM

LM Start	5.56	Rating **	M	Issue No.	907 (cont)
LM End	5.56	Issue Type +	Ma	Location *	LS

Photo 1 of 3 : UCIP_SP_2017_50847_67939.jpg



Headwall at LS toe.

Photo 2 of 3 : UCIP_SP_2017_50847_67938.jpg



Headwall at LS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek	Left	15.08	05/02/2017 05/02/2017	Bob Duffey

LM Start	5.56	Rating **	M	Issue No.	907 (cont)	
LM End	5.56	Issue Type +	Ma	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			39.624559 °		39.624559 °
				-121.772141 °		-121.772141 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:50847 DS_ID:1768 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 11/15/2016 Abandoned. Needs standpipe cover. (DWR Sutter Yard- A Freitag)5/9/2016 Abandoned pipe. Needs a cover for standpipe.8/5/2015 Abandoned pipes. Need covers made for tops of standpipes to prevent falls. 12/8/2014 Same as last inspection.6/11/2014 Same as last inspection.11/19/2013 Same as last inspection.5/29/2013 Same as last inspection. Land owner said pipes are abandoned and no longer used. Covers should be made for top of standpipe to prevent falls. Pipes should be properly abandoned.10/30/2012 Pipe 1/2 filled with soil at slide gate on WS. FIELD_STRUCT_DESC: *ABANDONED* 2 of 2: 36-inch corrugated metal drainage pipe through the levee, 11 feet below the crown. Slide gate in a 54-inch corrugated metal riser on the waterside (WS) slope. Concrete "U" shaped headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 1990. Sacramento O&M Manual 516, April 1960 (Station 470+00)]. FS Date: 11/21/2016 1:38:13 PM						

Photo 3 of 3 : UCIP_SP_2017_50847_67937.jpg



Slide gate at bottom of cmp riser.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek	Left	15.08	05/02/2017 05/02/2017	Bob Duffey

LM Start	5.56	Rating **	M	Issue No.	908
LM End	5.56	Issue Type +	Ma	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.624559 °	39.624559 °
				-121.772141 °	-121.772141 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:50848
DS_ID:1620
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 11/15/2016 Abandoned. Needs cover for the standpipe. (DWR Sutter Yard- A Freitag) 5/9/2016 Abandoned pipe. Needs a cover for the standpipe. 8/5/2015 Abandoned crossing. Covers need to be made for tops of standpipes to prevent falls. 12/8/2014 Same as last inspection. 6/11/2014 Same as last inspection. 11/19/2013 Same as last inspection. 5/29/2013 Same as last inspection. Land owner said pipes are abandoned and no longer used. Covers should be made for top of standpipe to prevent falls. Pipes should be properly abandoned. 10/30/2012 Pipe 1/2 filled with soil at slide gate end.
FIELD_STRUCT_DESC: *ABANDONED* 1 of 2: 36-inch drainage pipe through the levee, 11 feet below the crown. Slide gate in a 54-inch corrugated metal riser on the waterside (WS) slope. Concrete "U" headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 1990. Sacramento O&M Manual 516, April 1960 (Station 470+00)].
FS Date: 11/21/2016 1:39:16 PM

LM Start	5.56	Rating **	M	Issue No.	908 (cont)
LM End	5.56	Issue Type +	Ma	Location *	LS

Photo 1 of 2 : UCIP_SP_2017_50848_67941.jpg



Headwall at LS toe.

Photo 2 of 2 : UCIP_SP_2017_50848_67940.jpg



54-inch CMP riser and slide gate on WS shoulder.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek	Left	15.08	05/02/2017 05/02/2017	Bob Duffey

LM Start	5.69	Rating **	M	Issue No.	55
LM End	6.23	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.622766 °	39.615666 °
				-121.773159 °	-121.777353 °
DWR ID	DWR_MA0005_01_s_2015_55				
Comment Code					
DT : Ditch					
Inspector Comment					

Photo 1 of 1 : SP_2017_MA0005_196_55_20170315_00028.jpg



View of the irrigation ditch along the landside toe.

LM Start	5.81	Rating **	U	Issue No.	56
LM End	5.81	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.621261 °	39.621261 °
				-121.773973 °	-121.773973 °
DWR ID	DWR_MA0005_01_f_2016_56				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					

Photo 1 of 2 : SP_2017_MA0005_196_56_20170315_00029.jpg



View of the landside toe erosion.

LM Start	5.81	Rating **	U	Issue No.	56 (cont)
LM End	5.81	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : SP_2017_MA0005_196_56_20170315_00030.jpg



Another view of the landside toe erosion.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain			

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek	Left	15.08	05/02/2017 05/02/2017	Bob Duffey

LM Start	7.08	Rating **	M	Issue No.	57
LM End	7.08	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.604357 °	39.604357 °
				-121.783665 °	-121.783665 °
DWR ID	DWR_MA0005_01_f_2016_57				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					

Photo 1 of 1 : SP_2017_MA0005_196_57_20170315_00031.jpg



View of the landside slope erosion.

LM Start	7.14	Rating **	M	Issue No.	58
LM End	7.14	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.603648 °	39.603648 °
				-121.784114 °	-121.784114 °
DWR ID	DWR_MA0005_01_f_2016_58				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					

Photo 1 of 1 : SP_2017_MA0005_196_58_20170315_00032.jpg



View of the damaged landside slope by vehicle traffic.

LM Start	7.14	Rating **	M	Issue No.	59
LM End	7.14	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.603611 °	39.603611 °
				-121.784132 °	-121.784132 °
DWR ID	DWR_MA0005_01_f_2016_59				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					

Photo 1 of 1 : SP_2017_MA0005_196_59_20170315_00033.jpg



View of the rocks and cut in the landside levee toe.

*** Location**

LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek	Left	15.08	05/02/2017 05/02/2017	Bob Duffey

LM Start	7.38	Rating **	A	Issue No.	66
LM End	7.38	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.600403 °	39.600403 °
				-121.785862 °	-121.785862 °
DWR ID	DWR_MA0005_01_s_2017_66				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP_2017_MA0005_196_66_20170508_00085.jpg



View of native grasses on both slopes.

LM Start	7.58	Rating **	M	Issue No.	909
LM End	7.58	Issue Type +	Ma	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.597725 °	39.597725 °
				-121.787257 °	-121.787257 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:50864 DS_ID:1628 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 11/15/2016 Appears abandoned and should be done so properly. (DWR Sutter Yard- AFreitag)5/11/2016 Possibly an abandoned crossing. LS inlet was over 50% buried and nothing was found on the WS.8/4/2015 LS pipe end filled about 50% with soil and WS pipe end is buried.12/8/2014 Same as last inspection.6/11/2014 Same as last inspection.11/19/2013 Same as last inspection.5/29/2013 Same as last inspection.10/30/2012 Pipe filled with soil and outlet/appurtances are burried. FIELD_STRUCT_DESC: *ABANDONED* 24-inch corrugated metal drainage pipe through the levee, 8.5 feet below the crown. Flap gate on the waterside (WS). Concrete "U" shaped headwall on the landside (LS) toe. [Additional Reference(s): DWR Levee Log, 1990. Sacramento O&M Manual 515, April 1955 (Station 576+72), USACE As-built Drawings 50-4-2637, Exhibit B, Sheet 2, April 1950 (station 576+72.4)]. FS Date: 11/21/2016 1:51:54 PM					

Photo 1 of 2 : UCIP_SP_2017_50864_67970.jpg



Headwall at LS toe.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek	Left	15.08	05/02/2017 05/02/2017	Bob Duffey

LM Start	7.58	Rating **	M	Issue No.	909 (cont)	
LM End	7.58	Issue Type +	Ma	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			39.597725 °		39.597725 °
				-121.787257 °		-121.787257 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:50864 DS_ID:1628 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 11/15/2016 Appears abandoned and should be done so properly. (DWR Sutter Yard- AFreitag)5/11/2016 Possibly an abandoned crossing. LS inlet was over 50% buried and nothing was found on the WS.8/4/2015 LS pipe end filled about 50% with soil and WS pipe end is buried.12/8/2014 Same as last inspection.6/11/2014 Same as last inspection.11/19/2013 Same as last inspection.5/29/2013 Same as last inspection.10/30/2012 Pipe filled with soil and outlet/appurtances are burried. FIELD_STRUCT_DESC: *ABANDONED* 24-inch corrugated metal drainage pipe through the levee, 8.5 feet below the crown. Flap gate on the waterside (WS). Concrete "U" shaped headwall on the landside (LS) toe. [Additional Reference(s): DWR Levee Log, 1990. Sacramento O&M Manual 515, April 1955 (Station 576+72), USACE As-built Drawings 50-4-2637, Exhibit B, Sheet 2, April 1950 (station 576+72.4)]. FS Date: 11/21/2016 1:51:54 PM						

Photo 2 of 2 : UCIP_SP_2017_50864_67969.jpg



Headwall at LS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek	Left	15.08	05/02/2017 05/02/2017	Bob Duffey

LM Start	8.21	Rating **	M	Issue No.	910
LM End	8.21	Issue Type +	Ma	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.589751 °	39.589751 °
				-121.792818 °	-121.792818 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:50865 DS_ID:1629 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 11/15/2016 LS inlet was unburied and entire pipe is about 25% full of soil. WS flapgate was shut and partially buried. (DWR Sutter Yard- AFreitag)5/11/2016 WS flap gate was about 50% buried and LS was 100% buried. Appears to be an abandoned crossing.8/4/2015 WS flap gate is partially buried by soil and being overgrown with vegetation. LS pipe end was underwater and suspected to still be completely buried with soil.12/8/2014 Same as last inspection.6/11/2014 Same as last inspection.11/19/2013 Same as last inspection.5/29/2013 Same as last inspection.10/30/2012 Pipe filled with soil. FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 9.3 feet below the crown. Flap gate on the waterside (WS). Concrete headwall at the landside (LS) and the WS toes. [Additional Reference(s): DWR Levee Log, 1990. Sacramento O&M 515, April 1955 (Station 609+79). USACE As-Built Drawing 50-4-2637, Exhibit B, Sheet 3, April 1950 (Station 609+78.5)]. FS Date: 11/21/2016 1:53:01 PM					

Photo 1 of 3 : UCIP_SP_2017_50865_67973.jpg



Outlet at WS toe.

LM Start	8.21	Rating **	M	Issue No.	910 (cont)
LM End	8.21	Issue Type +	Ma	Location *	LS

Photo 2 of 3 : UCIP_SP_2017_50865_67972.jpg



Buried inlet at LS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek	Left	15.08	05/02/2017 05/02/2017	Bob Duffey

LM Start	8.21	Rating **	M	Issue No.	910 (cont)
LM End	8.21	Issue Type +	Ma	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.589751 °	39.589751 °
				-121.792818 °	-121.792818 °
DWR ID					

Photo 3 of 3 : UCIP_SP_2017_50865_67971.jpg



Flap gate at WS toe.

Comment Code

Inspector Comment

FS_ID:50865
DS_ID:1629
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 11/15/2016 LS inlet was unburied and entire pipe is about 25% full of soil. WS flapgate was shut and partially buried. (DWR Sutter Yard- A Freitag) 5/11/2016 WS flap gate was about 50% buried and LS was 100% buried. Appears to be an abandoned crossing. 8/4/2015 WS flap gate is partially buried by soil and being overgrown with vegetation. LS pipe end was underwater and suspected to still be completely buried with soil. 12/8/2014 Same as last inspection. 6/11/2014 Same as last inspection. 11/19/2013 Same as last inspection. 5/29/2013 Same as last inspection. 10/30/2012 Pipe filled with soil.
FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 9.3 feet below the crown. Flap gate on the waterside (WS). Concrete headwall at the landside (LS) and the WS toes.
[Additional Reference(s): DWR Levee Log, 1990. Sacramento O&M 515, April 1955 (Station 609+79). USACE As-Built Drawing 50-4-2637, Exhibit B, Sheet 3, April 1950 (Station 609+78.5)].
FS Date: 11/21/2016 1:53:01 PM

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek	Left	15.08	05/02/2017 05/02/2017	Bob Duffey

LM Start	9.08	Rating **	M	Issue No.	911
LM End	9.08	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.579908 °	39.579908 °
				-121.802790 °	-121.802790 °

Comment Code

Inspector Comment

FS_ID:50868
DS_ID:1631
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 11/15/2016 Abandoned. (DWR Sutter Yard-AFreitag)5/11/2016 Abandoned pipe.8/4/2015 Abandoned pipe.
Casey Wilder has started the steps to have the pipe properly abandoned and removed from the levee.12/8/2014 Same as last inspection.6/11/2014 Same as last inspection.11/19/2013 Same as last inspection.5/29/2013 Same as last inspection.10/30/2012 Need to confirm proper abandonment of pipe. Pipe should be plugged on LS.
FIELD_STRUCT_DESC: 16-inch steel irrigation pipe through the levee, 11.5 feet below the crown. Distribution box at the landside (LS) toe.
[Additional Reference(s): DWR Levee Log, 1990. Sacramento O&M Manual 515, April 1955 (Station 655+68). USACE As-built Drawing 50-4-2637, Exhibit B, Sheet 3, April 1950 (Station 655+68.2)].
FS Date: 11/21/2016 2:10:15 PM

LM Start	9.08	Rating **	M	Issue No.	911 (cont)
LM End	9.08	Issue Type +	En	Location *	LS

Photo 1 of 3 : UCIP_SP_2017_50868_67976.jpg



Concrete distribution box at LS toe.

Photo 2 of 3 : UCIP_SP_2017_50868_67975.jpg



WS shoulder.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek	Left	15.08	05/02/2017 05/02/2017	Bob Duffey

LM Start	9.52	Rating **	A/W	Issue No.	912
LM End	9.52	Issue Type +	Ma	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.575072 °	39.575072 °
				-121.807805 °	-121.807805 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:50869
DS_ID:1775
EP_NO: N/A
Repair Type: No Action Needed
Crossing Status: Found
UCIP Comments: 11/15/2016 Crossing appears to be in good condition. (DWR Sutter Yard- A Freitag) 5/11/2016 Crossing appears to be in good condition. 8/4/2015 Crossing is in good condition. No noticeable issues to report. 12/8/2014 Same as last inspection. 6/11/2014 Same as last inspection. 11/19/2013 Same as last inspection. 5/29/2013 Flap gates were removed by DWR Sutter Maintenance Yard to allow water to flow freely through crossing and not back up in ditch. 10/30/2012 Seems there should be flap gates on this structure.
FIELD_STRUCT_DESC: [Robert's Creek Outlet Structure] 1 of 4: 66-inch corrugated metal drainage pipe through the levee, 17.9 feet below the crown. Concrete headwalls on the landside (LS) and the waterside (WS). [Additional Reference(s): DWR Levee Log, 1990. Sacramento O&M Manual 515, April 1955 (Station 678+00). USACE As-built Drawing 50-4-2637, Exhibit B, Sheet 3, April 1950 (Station 678+00)].
FS Date: 11/21/2016 2:14:52 PM

LM Start	9.52	Rating **	A/W	Issue No.	912 (cont)
LM End	9.52	Issue Type +	Ma	Location *	LS

Photo 1 of 2 : UCIP_SP_2017_50869_67979.jpg



WS of pipe crossing

Photo 2 of 2 : UCIP_SP_2017_50869_67978.jpg



LS of pipe crossing.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek	Left	15.08	05/02/2017 05/02/2017	Bob Duffey

LM Start	9.52	Rating **	A/W	Issue No.	913
LM End	9.52	Issue Type +	Ma	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.575036 °	39.575036 °
				-121.807807 °	-121.807807 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:50870
DS_ID:1774
EP_NO: N/A
Repair Type: No Action Needed
Crossing Status: Found
UCIP Comments: 11/15/2016 Crossing appears to be in good condition. (DWR Sutter Yard- A Freitag) 5/11/2016 Crossing appears to be in good condition. 8/4/2015 Crossing is in good condition. No noticeable issues to report. 12/8/2014 Same as last inspection. 6/11/2014 Same as last inspection. 11/19/2013 Same as last inspection. 5/29/2013 Flap gates were removed by DWR Sutter Maintenance Yard to allow water to flow freely through crossing and not back up in ditch. 10/30/2012 Seems there should be flap gates on this structure.
FIELD_STRUCT_DESC: [Robert's Creek Outlet Structure] 2 of 4: 66-inch corrugated metal drainage pipe through the levee, 17.9 feet below the crown. Concrete headwalls on the landside (LS) and the waterside (WS). [Additional Reference(s): DWR Levee Log, 1990. Sacramento O&M Manual 515, April 1955 (Station 678+00). USACE As-built Drawing 50-4-2637, Exhibit B, Sheet 3, April 1950 (Station 678+00)].
FS Date: 11/21/2016 2:15:15 PM

LM Start	9.52	Rating **	A/W	Issue No.	913 (cont)
LM End	9.52	Issue Type +	Ma	Location *	LS

Photo 1 of 2 : UCIP_SP_2017_50870_67981.jpg



WS of crossing.

Photo 2 of 2 : UCIP_SP_2017_50870_67980.jpg



LS of crossing.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

Levee Inspection Report By Mile - Spring 2017

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek	Left	15.08	05/02/2017 05/02/2017	Bob Duffey

LM Start	9.52	Rating **	A/W	Issue No.	914 (cont)
LM End	9.52	Issue Type +	Ma	Location *	LS

WS of crossing.

LS of crossing.

Page 31 of 46

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek	Left	15.08	05/02/2017 05/02/2017	Bob Duffey

LM Start	9.52	Rating **	A/W	Issue No.	915
LM End	9.52	Issue Type +	Ma	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.574964 °	39.574964 °
				-121.807810 °	-121.807810 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:50872
DS_ID:1773
EP_NO: N/A
Repair Type: No Action Needed
Crossing Status: Found
UCIP Comments: 11/15/2016 Crossing appears to be in good condition. (DWR Sutter Yard- A Freitag) 5/11/2016 Crossing appears to be in good condition. 8/4/2015 Crossing appears in good condition. No noticeable issues to report. 12/8/2014 Same as last inspection. 6/11/2014 Same as last inspection. 11/19/2013 Same as last inspection. 5/29/2013 Flap gates were removed by DWR Sutter Maintenance Yard to allow water to flow freely through crossing and not back up in ditch. 10/30/2012 Seems there should be flap gates on this structure.
FIELD_STRUCT_DESC: [Robert's Creek Outlet Structure] 4 of 4: 66-inch corrugated metal drainage pipe through the levee, 17.9 feet below the crown. Concrete headwalls on the landside (LS) and the waterside (WS). [Additional Reference(s): DWR Levee Log, 1990. Sacramento O&M Manual 515, April 1955 (Station 678+00). USACE As-built Drawing 50-4-2637, Exhibit B, Sheet 3, April 1950 (Station 678+00)].
FS Date: 11/21/2016 2:19:49 PM

LM Start	9.52	Rating **	A/W	Issue No.	915 (cont)
LM End	9.52	Issue Type +	Ma	Location *	LS

Photo 1 of 2 : UCIP_SP_2017_50872_67985.jpg



WS of crossing.

Photo 2 of 2 : UCIP_SP_2017_50872_67984.jpg



LS of crossing.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek	Left	15.08	05/02/2017 05/02/2017	Bob Duffey

LM Start	9.54	Rating **	M	Issue No.	5
LM End	10.33	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.574837 °	39.567892 °
				-121.807913 °	-121.819283 °
DWR ID	DWR_MA0005_01_s_2012_5				
Comment Code					
DT : Ditch					
Inspector Comment					

Photo 1 of 1 : SP_2017_MA0005_196_5_20170315_00002.jpg



View of the agricultural ditch along the landside toe.

LM Start	10.04	Rating **	M	Issue No.	916
LM End	10.04	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.570596 °	39.570596 °
				-121.815215 °	-121.815215 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:50873 DS_ID:1633 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 11/15/2016 Abandoned. (DWR Sutter Yard-AFreitag)5/11/2016 Abandoned crossing.8/4/2015 Abandoned pipe. Casey Wilder has started the steps to have the pipe properly abandoned and removed from the levee.12/8/2014 Same as last inspection.6/11/2014 Same as last inspection.11/19/2013 Same as last inspection.5/29/2013 Same as last inspection.10/30/2012 Pipe and headwall buried on WS, no access to slide gate. FIELD_STRUCT_DESC: 24-inch corrugated metal irrigation pipe through the levee, 12.5 feet below the crown. Slide gate on the waterside (WS). Flap gate and headwall on the landside (LS). Concrete headwall at the WS toe. [Additional Reference(s): DWR Levee Log, 1990. Sacramento O&M Manual 515, April 1955 (Station 706+00)]. FS Date: 11/21/2016 2:20:10 PM					

Photo 1 of 1 : UCIP_SP_2017_50873_67986.jpg



Flap gate and headwall at LS toe in irrigation or drainage ditch.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

Levee Inspection Report By Mile - Spring 2017

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek	Left	15.08	05/02/2017 05/02/2017	Bob Duffey

LM Start	10.26	Rating **	M	Issue No.	917 (cont)
LM End	10.26	Issue Type +	En	Location *	LS

* Location	** Rating	+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek	Left	15.08	05/02/2017 05/02/2017	Bob Duffey

LM Start	10.26	Rating **	M	Issue No.	917 (cont)	
LM End	10.26	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.568523 °	39.568523 °	
				-121.818232 °	-121.818232 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:50874						
DS_ID:1634						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: 11/15/2016 Abandoned. (DWR Sutter Yard-AFreitag)5/11/2016 Abandoned crossing.8/4/2015 Abandoned pipe. Casey Wilder has started the steps to have the pipe properly abandoned and removed from the levee.12/8/2014 Same as last inspection.6/11/2014 Same as last inspection.11/19/2013 Same as last inspection.5/29/2013 Same as last inspection.						
FIELD_STRUCT_DESC: 24-inch corrugated metal irrigation pipe through the levee, 14.5 feet below the crown. Slide gate on the waterside (WS) on concrete headwall. Flap gate on the landside (LS).						
[Additional Reference(s): DWR Levee Log, 1990. Sacramento O&M Manual 515, April 1955 (Station 717+50)].						
FS Date: 11/21/2016 2:25:16 PM						

Photo 3 of 3 : UCIP_SP_2017_50874_67987.jpg



Headwall and slide gate on WS toe.

LM Start	10.37	Rating **	M	Issue No.	26
LM End	10.37	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.567541 °	39.567541 °
				-121.819786 °	-121.819786 °
DWR ID	DWR_MA0005_01_s_2016_26				
Comment Code					
EQ : Equipment					
Inspector Comment					
Abandoned motorhomes and farm equipment.					

Photo 1 of 1 : SP_2017_MA0005_196_26_20170315_00007.jpg



5/5/2016: Remove abandoned motorhome and equipment from L/S toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek	Left	15.08	05/02/2017 05/02/2017	Bob Duffey

LM Start	10.84	Rating **	M	Issue No.	918
LM End	10.84	Issue Type +	Ma	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.562559 °	39.562559 °
				-121.825808 °	-121.825808 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:50875
DS_ID:1635
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 11/15/2016 Abandoned. (DWR Sutter Yard-AFreitag)5/11/2016 Abandoned crossing.8/4/2015 Abandoned pipe. Casey Wilder has started the steps to have the pipe properly abandoned and removed from the levee.12/8/2014 Same as last inspection.6/11/2014 Same as last inspection.11/19/2013 Same as last inspection.5/29/2013 Same as last inspection.10/30/2012 Pipe buried on both sides of levee.
FIELD_STRUCT_DESC: *ABANDONED* 30-inch corrugated metal drainage pipe through the levee, 12.2 feet below the crown. Flap gate on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual 515, April 1955 (Station 748+53). USACE As-built Drawing 50-4-2637, Exhibit B, Sheet 4, April 1950 (Station 748+53)].
FS Date: 11/21/2016 2:26:09 PM

LM Start	10.84	Rating **	M	Issue No.	918 (cont)
LM End	10.84	Issue Type +	Ma	Location *	LS

Photo 1 of 2 : UCIP_SP_2017_50875_67991.jpg



Concrete headwall at LS toe.

Photo 2 of 2 : UCIP_SP_2017_50875_67990.jpg



Concrete headwall at LS toe.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek	Left	15.08	05/02/2017 05/02/2017	Bob Duffey

LM Start	10.87	Rating **	M	Issue No.	67
LM End	10.87	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.562177 °	39.562177 °
				-121.826072 °	-121.826072 °
DWR ID	DWR_MA0005_01_s_2017_67				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					
Repair the erosion along the water side slope.					

Photo 1 of 1 : SP_2017_MA0005_196_67_20170508_00086.jpg



View of erosion along the waterside slope.

LM Start	11.36	Rating **	A/W	Issue No.	919
LM End	11.36	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.556741 °	39.556741 °
				-121.832071 °	-121.832071 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:50882 DS_ID:1636 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 11/15/2016 Crossing appears to be in good condition. (DWR Sutter Yard- A/Freitag)5/11/2016 Crossing appears to be in good condition.8/4/2015 Crossing appears in good condition. No noticeable issues to report.6/11/2014 Same as last inspection.11/19/2013 Same as last inspection.5/29/2013 Same as last inspection. FIELD_STRUCT_DESC: 1 of 4: 54-inch corrugated metal drainage pipe through the levee, 13.5 feet below the crown. Flap gate on the waterside (WS). Concrete headwall on landside (LS) and WS toes. [Additional Reference(s): DWR Levee Logs, 1990. USACE Sacramento O&M Manual 515, April 1955 (Station 25+18"A"). USACE As-built Drawing 50-4-2637, Exhibit B, Sheet 4, April 1950 (Station 25+18"A")]. FS Date: 11/21/2016 2:29:11 PM					

Photo 1 of 2 : UCIP_SP_2017_50882_68007.jpg



WS headwall and flap gates at WS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek	Left	15.08	05/02/2017 05/02/2017	Bob Duffey

LM Start	11.36	Rating **	A/W	Issue No.	919 (cont)	
LM End	11.36	Issue Type +	Ma	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.556741 °	39.556741 °	
				-121.832071 °	-121.832071 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:50882 DS_ID:1636 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 11/15/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)5/11/2016 Crossing appears to be in good condition.8/4/2015 Crossing appears in good condition. No noticeable issues to report.6/11/2014 Same as last inspection.11/19/2013 Same as last inspection.5/29/2013 Same as last inspection. FIELD_STRUCT_DESC: 1 of 4: 54-inch corrugated metal drainage pipe through the levee, 13.5 feet below the crown. Flap gate on the waterside (WS). Concrete headwall on landside (LS) and WS toes. [Additional Reference(s): DWR Levee Logs, 1990. USACE Sacramento O&M Manual 515, April 1955 (Station 25+18"A"). USACE As-built Drawing 50-4-2637, Exhibit B, Sheet 4, April 1950 (Station 25+18"A")]. FS Date: 11/21/2016 2:29:11 PM						

Photo 2 of 2 : UCIP_SP_2017_50882_68006.jpg



LS intake headwall.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek	Left	15.08	05/02/2017 05/02/2017	Bob Duffey

LM Start	11.36	Rating **	A/W	Issue No.	920
LM End	11.36	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.556716 °	39.556716 °
				-121.832097 °	-121.832097 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:50883
DS_ID:1782
EP_NO: N/A
Repair Type: No Action Needed
Crossing Status: Found
UCIP Comments: 11/15/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)5/11/2016 Crossing appears to be in good condition.8/4/2015 Crossing appears in good condition. No noticeable issues to report.6/11/2014 Same as last inspection.11/19/2013 Same as last inspection.5/29/2013 Same as last inspection.
FIELD_STRUCT_DESC: 2 of 4: 54-inch corrugated metal drainage pipe through the levee, 13.5 feet below the crown. Flap gate on the waterside (WS). Concrete headwall on the landside (LS) and the WS toes. [Additional Reference(s): DWR Levee Logs, 1990. USACE Sacramento O&M Manual 515, April 1955 (Station 28+18"A"). USACE As-built Drawing 50-4-2637, Exhibit B, Sheet 4, April 1950 (Station 25+18"A")].
FS Date: 11/21/2016 2:29:33 PM

LM Start	11.36	Rating **	A/W	Issue No.	920 (cont)
LM End	11.36	Issue Type +	Ma	Location *	WS

Photo 1 of 2 : UCIP_SP_2017_50883_68009.jpg



Headwall and flap gates at WS toe.

Photo 2 of 2 : UCIP_SP_2017_50883_68008.jpg



Headwall at LS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek	Left	15.08	05/02/2017 05/02/2017	Bob Duffey

LM Start	11.80	Rating **	A/W	Issue No.	923
LM End	11.80	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.551757 °	39.551757 °
				-121.837252 °	-121.837252 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:50886 DS_ID:1637 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 11/15/2016 Old pipe at Nelson Road- Replaced by DS_ID 25461. (DWR Sutter Yard- AFreitag)6/22/2016 Pipe removed in 2013 and replaced with new 30-inch pipe (SEE DS_ID 25461). New pipe is inspected under DS_ID 25461. This DS_ID 1637 is no longer in use, pipe has been removed. (DWR UCIP - Olivia M.)7/30/2013 Repaired June 20135/29/2013 Pipe was video inspected and it was determined it needs full replacement. Replacement construction is scheduled to begin in the week of 6/3/2013.10/31/2012 Pipe is totally corroded through on WS toe and flap gate is missing. Pipe likely requires total replacement. FIELD_STRUCT_DESC: *REMOVED* 30-inch corrugated metal drainage pipe through the levee, 15.0 feet below the crown. Flap gate on the waterside (WS). Concrete headwall on the landside (LS) and the WS toe. [Additional Reference(s): DWR Levee Logs, 1990. USACE Sacramento O&M Manual 515, April 1955 (Station 835+21). USACE As-built Drawing 50-4-2637, Exhibit B, Sheet 4, April 1950 (Station 835+20.96)]. FS Date: 11/21/2016 2:31:25 PM					

LM Start	11.80	Rating **	A/W	Issue No.	923 (cont)
LM End	11.80	Issue Type +	Ma	Location *	WS

Photo 1 of 3 : UCIP_SP_2017_50886_68017.jpg



Drainage canal on LS toe.

Photo 2 of 3 : UCIP_SP_2017_50886_68016.jpg



Concrete headwall on LS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek	Left	15.08	05/02/2017 05/02/2017	Bob Duffey

LM Start	11.80	Rating **	A/W	Issue No.	923 (cont)
LM End	11.80	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.551757 °	39.551757 °
				-121.837252 °	-121.837252 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:50886					
DS_ID:1637					
EP_NO: N/A					
Repair Type: No Action Needed					
Crossing Status: Found					
UCIP Comments: 11/15/2016 Old pipe at Nelson Road- Replaced by DS_ID 25461. (DWR Sutter Yard- AFreitag)6/22/2016 Pipe removed in 2013 and replaced with new 30-inch pipe (SEE DS_ID 25461). New pipe is inspected under DS_ID 25461. This DS_ID 1637 is no longer in use, pipe has been removed. (DWR UCIP - Olivia M.)7/30/2013 Repaired June 20135/29/2013 Pipe was video inspected and it was determined it needs full replacement. Replacement construction is scheduled to begin in the week of 6/3/2013.10/31/2012 Pipe is totally corroded through on WS toe and flap gate is missing. Pipe likely requires total replacement.					
FIELD_STRUCT_DESC: *REMOVED* 30-inch corrugated metal drainage pipe through the levee, 15.0 feet below the crown. Flap gate on the waterside (WS). Concrete headwall on the landside (LS) and the WS toe. [Additional Reference(s): DWR Levee Logs, 1990. USACE Sacramento O&M Manual 515, April 1955 (Station 835+21). USACE As-built Drawing 50-4-2637, Exhibit B, Sheet 4, April 1950 (Station 835+20.96)].					
FS Date: 11/21/2016 2:31:25 PM					

Photo 3 of 3 : UCIP_SP_2017_50886_68015.jpg



Heavily corroded CMP pipe at WS toe.

LM Start	11.85	Rating **	M	Issue No.	6
LM End	13.64	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.551235 °	39.531462 °
				-121.837697 °	-121.856165 °
DWR ID	DWR_MA0005_01_s_2012_6				
Comment Code					
DT : Ditch					
Inspector Comment					

Photo 1 of 1 : SP_2017_MA0005_196_6_20170315_00003.jpg



View of the agricultural ditch along the landside toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek	Left	15.08	05/02/2017 05/02/2017	Bob Duffey

LM Start	11.85	Rating **	M	Issue No.	924
LM End	11.85	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.551212 °	39.551212 °
				-121.837724 °	-121.837724 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:50888 DS_ID:1747 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: 11/15/2016 Buried on both sides of Levee. (DWR Sutter Yard - A Freitag)5/11/2016 Buried pipe.8/4/2015 Pipe is buried on both ends.6/11/2014 Same as last inspection.11/19/2013 Same as last inspection.5/29/2013 Same as last inspection.10/31/2012 Pipe burried on both LS and WS. FIELD_STRUCT_DESC: 48-inch corrugated metal irrigation pipe through the levee, at an unknown depth below the crown, indicator found. 48-inch corrugated metal riser and a sparring water meter/irrigation structure on the landside (LS). 4-foot by 6-foot concrete distribution box at the LS toe. [Additional Reference(s): USACE Sacramento O&M Manual 515, April 1955 (Station 836+86). USACE As-built Drawings 50-4-2637, Exhibit B, Sheet 4, April 1950 (Station 836+86)]. FS Date: 11/21/2016 2:34:12 PM					

Photo 1 of 1 : UCIP_SP_2017_50888_68025.jpg



Buried pipe at concrete box, LS toe.

LM Start	13.69	Rating **	M	Issue No.	69
LM End	13.69	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.531032 °	39.531032 °
				-121.856977 °	-121.856977 °
DWR ID	DWR_MA0005_01_s_2017_69				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
Repair the erosion along the landside slope and toe.					

Photo 1 of 1 : SP_2017_MA0005_196_69_20170508_00087.jpg



Repair the erosion along the landside slope and toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek	Left	15.08	05/02/2017 05/02/2017	Bob Duffey

LM Start	14.46	Rating **	M	Issue No.	925
LM End	14.46	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.522200 °	39.522200 °
				-121.865592 °	-121.865592 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:50891
DS_ID:1639
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 11/15/2016 NO soil supporting the WS wing walls. (DWR Sutter Yard- A Freitag) 5/11/2016 Still no soil supporting the WS wing walls and apron. WS vegetation was thinner and not a problem this time. 8/4/2015 No soil supporting the WS wing walls at the WS pipe end. WS pipe end is also being overgrown with vegetation and should be cleared back. 6/11/2014 Same as last inspection. 11/19/2013 Same as last inspection. 5/29/2013 Same as last inspection. 10/31/2012 Soil under Concrete wing walls on WS toe has been eroded. No soil supporting wing walls.
FIELD_STRUCT_DESC: 36-inch corrugated metal drainage pipe through the levee, 13 feet below the crown. Flap gate on the waterside (WS). Concrete headwall on the landside (LS) and the WS ends.
[Additional Reference(s): DWR Levee Logs, 1990. USACE Sacramento O&M Manual 515, April 1955 (Station 978+25). USACE As-built Drawing 50-4-2637, Exhibit B, Sheet 5, April 1950 (Station 978+24.95)].
FS Date: 11/21/2016 2:36:31 PM

LM Start	14.46	Rating **	M	Issue No.	925 (cont)
LM End	14.46	Issue Type +	Ma	Location *	WS

Photo 1 of 3 : UCIP_SP_2017_50891_68033.jpg



Headwall at inlet on LS toe.

Photo 2 of 3 : UCIP_SP_2017_50891_68032.jpg



CMP pipe, flap gate, and headwall on WS toe.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek	Left	15.08	05/02/2017 05/02/2017	Bob Duffey

LM Start	14.46	Rating **	M	Issue No.	925 (cont)
LM End	14.46	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.522200 °	39.522200 °
				-121.865592 °	-121.865592 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:50891 DS_ID:1639 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 11/15/2016 NO soil supporting the WS wing walls. (DWR Sutter Yard- AFreitag)5/11/2016 Still no soil supporting the WS wing walls and apron. WS vegetation was thinner and not a problem this time.8/4/2015 No soil supporting the WS wing walls at the WS pipe end. WS pipe end is also being overgrown with vegetation and should be cleared back.6/11/2014 Same as last inspection.11/19/2013 Same as last inspection.5/29/2013 Same as last inspection.10/31/2012 Soil under Concrete wing walls on WS toe has been eroded. No soil supporting wing walls. FIELD_STRUCT_DESC: 36-inch corrugated metal drainage pipe through the levee, 13 feet below the crown. Flap gate on the waterside (WS). Concrete headwall on the landside (LS) and the WS ends. [Additional Reference(s): DWR Levee Logs, 1990. USACE Sacramento O&M Manual 515, April 1955 (Station 978+25). USACE As-built Drawing 50-4-2637, Exhibit B, Sheet 5, April 1950 (Station 978+24.95)]. FS Date: 11/21/2016 2:36:31 PM					

Photo 3 of 3 : UCIP_SP_2017_50891_68031.jpg



Wingwalls of headwall not supported by soil.

LM Start	14.50	Rating **	U	Issue No.	68
LM End	15.07	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.521852 °	39.515597 °
				-121.866183 °	-121.873198 °
DWR ID	DWR_MA0005_01_s_2017_68				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
Repair the erosion along the waterside toe.					

Photo 1 of 1 : SP_2017_MA0005_196_68_20170508_00088.jpg



View of the erosion along the waterside toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2017 Levee Inspection Results

Sutter Maintenance Yard Maintenance Area 0005

Waterway			Bank	Unit Miles
Unit No. 02 Butte Creek			Right	16.27
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	5/2/2017 - 5/2/2017			
DWR Inspector	Bob Duffey			
Accompanied By	Shawn Freitag Sutter Maintenance Yard			

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	05/02/2017 05/02/2017	Bob Duffey

LM Start	1.21	Rating **	M	Issue No.	1
LM End	1.59	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.529933 °	39.534102 °
				-121.861563 °	-121.856947 °
DWR ID	DWR_MA0005_02_s_2012_1				
Comment Code					
DT : Ditch					
Inspector Comment					

Photo 1 of 1 : SP_2017_MA0005_197_1_20170315_00001.jpg



View of the agricultural ditch along the landside toe.

LM Start	1.60	Rating **	M	Issue No.	69
LM End	1.60	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.534170 °	39.534170 °
				-121.856853 °	-121.856853 °
DWR ID	DWR_MA0005_02_s_2017_69				
Comment Code					
DE : Debris					
Inspector Comment					
Remove the debris from the waterside toe.					

Photo 1 of 1 : SP_2017_MA0005_197_69_20170508_00106.jpg



View of the debris along the waterside toe.

LM Start	1.68	Rating **	M	Issue No.	70
LM End	1.68	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.534868 °	39.534868 °
				-121.855788 °	-121.855788 °
DWR ID	DWR_MA0005_02_s_2017_70				
Comment Code					
DE : Debris					
Inspector Comment					
Remove the debris from the waterside toe.					

Photo 1 of 1 : SP_2017_MA0005_197_70_20170508_00107.jpg



View of the debris along the waterside toe.

*** Location**

LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	05/02/2017 05/02/2017	Bob Duffey

LM Start	1.86	Rating **	M	Issue No.	48
LM End	1.86	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.536915 °	39.536915 °
				-121.853669 °	-121.853669 °
DWR ID	DWR_MA0005_02_f_2016_48				
Comment Code					
EQ : Equipment					
Inspector Comment					
Remove pile of soil and rocks and ag equipment from the toe of the levee.					

Photo 1 of 1 : SP_2017_MA0005_197_48_20170315_00023.jpg



View of soil pile, rocks, and ag equipment.

LM Start	1.90	Rating **	M	Issue No.	49
LM End	1.90	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.537445 °	39.537445 °
				-121.853112 °	-121.853112 °
DWR ID	DWR_MA0005_02_f_2016_49				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
Repair the erosion on the waterside toe of the levee.					

Photo 1 of 1 : SP_2017_MA0005_197_49_20170315_00024.jpg



View of the landside toe erosion.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	05/02/2017 05/02/2017	Bob Duffey

LM Start	1.91	Rating **	U	Issue No.	75
LM End	1.91	Issue Type +	Ma	Location *	LS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		39.537455 °	39.537455 °	
			-121.853061 °	-121.853061 °	
DWR ID					

Comment Code

Inspector Comment

FS_ID:50904
DS_ID:1645
EP_NO: N/A
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 11/14/2016 LS erosion still present and is into the prism of the levee. WS flap gate was still mostly buried and non-operational. 5/23/2016 The tree that was overgrowing the WS flapgate has been removed. Flap gate was half buried and unable to open. Erosion on the LS is still present. (DWR Sutter Yard - afreitag)7/28/2015 LS inlet is underwater but there appears to be erosion behind the LS headwall. WS pipe end and flap gate are completely overgrown and inaccessible for inspection. (DWR Sutter Yard - afreitag)11/25/2014 Tree is overgrowing the WS pipe outlet.. Needs to be trimmed back. (DWR Sutter Yard - afreitag)6/4/2014 Same as last inspection. (DWR Sutter Yard - afreitag)11/12/2013 Same as last inspection. (DWR Sutter Yard - afreitag)6/6/2013 Same as last inspection. (DWR Sutter Yard - afreitag)10/31/2012 Vegetation needs to be cleared from outlet. (DWR UCIP - wwylie)
FIELD_STRUCT_DESC: 36-inch corrugated metal drainage pipe through the levee, 17 feet below the crown. Flap gate on the waterside (WS). Slide gate on the landside (LS) toe. Concrete headwall at both the LS and the WS toes. [Additional Reference(s): DWR Levee Logs, 1990. USACE Sacramento O&M Manual 515 (Station 902+50). USACE As-built Drawing 50-4-2637, Exhibit B, Sheet 5, April 1950 (Station 902+50)].
FS Date: 11/22/2016 9:20:46 AM

LM Start	1.91	Rating **	U	Issue No.	75 (cont)
LM End	1.91	Issue Type +	Ma	Location *	LS

Photo 1 of 3 : UCIP_SP_2017_50904_68498.jpg



Concrete headwall and slide gate on LS toe.

Photo 2 of 3 : UCIP_SP_2017_50904_68497.jpg



Flap gate on WS slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain			

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	05/02/2017 05/02/2017	Bob Duffey

LM Start	1.91	Rating **	U	Issue No.	75 (cont)
LM End	1.91	Issue Type +	Ma	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.537455 °	39.537455 °
				-121.853061 °	-121.853061 °
DWR ID					

Comment Code

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Inspector Comment

FS_ID:50904
 DS_ID:1645
 EP_NO: N/A
 Repair Type: Urgent
 Crossing Status: Found
 UCIP Comments: 11/14/2016 LS erosion still present and is into the prism of the levee. WS flap gate was still mostly buried and non-operational. 5/23/2016 The tree that was overgrowing the WS flapgate has been removed. Flap gate was half buried and unable to open. Erosion on the LS is still present. (DWR Sutter Yard - afreitag)7/28/2015 LS inlet is underwater but there appears to be erosion behind the LS headwall. WS pipe end and flap gate are completely overgrown and inaccessible for inspection. (DWR Sutter Yard - afreitag)11/25/2014 Tree is overgrowing the WS pipe outlet.. Needs to be trimmed back. (DWR Sutter Yard - afreitag)6/4/2014 Same as last inspection. (DWR Sutter Yard - afreitag)11/12/2013 Same as last inspection. (DWR Sutter Yard - afreitag)6/6/2013 Same as last inspection. (DWR Sutter Yard - afreitag)10/31/2012 Vegetation needs to be cleared from outlet. (DWR UCIP - wwylie)
 FIELD_STRUCT_DESC: 36-inch corrugated metal drainage pipe through the levee, 17 feet below the crown. Flap gate on the waterside (WS). Slide gate on the landside (LS) toe. Concrete headwall at both the LS and the WS toes. [Additional Reference(s): DWR Levee Logs, 1990. USACE Sacramento O&M Manual 515 (Station 902+50). USACE As-built Drawing 50-4-2637, Exhibit B, Sheet 5, April 1950 (Station 902+50)].
 FS Date: 11/22/2016 9:20:46 AM

Photo 3 of 3 : UCIP_SP_2017_50904_68496.jpg



Flap gate on WS slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Sutter Maintenance Yard Maintenance Area 0005

View of the rodent holes along the landside slope.

Air vent in 24-inch CMP riser on LS shoulder.

Page 5 of 58

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	05/02/2017 05/02/2017	Bob Duffey

LM Start	2.87	Rating **	M	Issue No.	76 (cont)	
LM End	2.87	Issue Type +	En	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.549014 °	39.549014 °	
				-121.842866 °	-121.842866 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:50905 DS_ID:1646 EP_NO: 3927 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 11/14/2016 Appears abandoned- pump removed from pier in Butte Creek also riser and siphon breaker are no longer seen on LS shoulder. (DWR Sutter Yard- A Freitag)5/23/2016 Crossing appears to have been abandoned and removed. Could not locate the LS riser and siphon breaker.7/28/2015 No pump present during any of my inspections. Crossing appears abandoned. CMP riser has been knocked out of levee. 11/25/2014 Same as last inspection.6/04/2014 Same as last inspection.11/12/2013 Same as last inspection.6/6/2013 Same as last inspection.10/31/2012 Pump does not appear to be in use or is abandoned. FIELD_STRUCT_DESC: 20-inch (not 18-inch as referenced in the levee log) exterior coated steel irrigation pipe through the levee, 2.4 feet below the crown. Siphon breaker in a 24-inch corrugated metal riser on the landside (LS) shoulder. Portable pump on the waterside (WS). (Permit No. 3927, 1962 - Arrowhead Ranch). [Additional Reference(s): DWR Levee Log, 1990]. FS Date: 11/22/2016 9:26:11 AM						

Photo 2 of 3 : UCIP_SP_2017_50905_68056.jpg



Pump on metal pier at WS toe.

LM Start	2.87	Rating **	M	Issue No.	76 (cont)
LM End	2.87	Issue Type +	En	Location *	WS

Photo 3 of 3 : UCIP_SP_2017_50905_74602.jpg



Spot where CMP riser was on the LS shoulder.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	05/02/2017 05/02/2017	Bob Duffey

LM Start	3.10	Rating **	M	Issue No.	7
LM End	4.04	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.551780 °	39.562341 °
				-121.840507 °	-121.829507 °
DWR ID	DWR_MA0005_02_s_2012_7				
Comment Code					
DT : Ditch					
Inspector Comment					

Photo 1 of 1 : SP_2017_MA0005_197_7_20170315_00004.jpg



View of the agricultural ditch along the landside toe.

LM Start	4.03	Rating **	A/W	Issue No.	77
LM End	4.03	Issue Type +	Ma	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.562271 °	39.562271 °
				-121.829610 °	-121.829610 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:50906 DS_ID:1647 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 11/14/2016 Crossing appears to be in good condition. (DWR Sutter Yard- A/Freitag)5/23/2016 Crossing appears to be in good condition.7/28/2015 Pipe appears in good condition. No noticeable issues to report.6/6/2013 Same as last inspection.11/12/2013 Same as last inspection.6/04/2014 Same as last inspection.11/25/2014 Same as last inspection. FIELD_STRUCT_DESC: 30-inch corrugated metal drainage pipe through the levee, 14.3 feet below the crown. Slide gate on the landside (LS), flap gate on the waterside (WS). Concrete headwall at the LS toe. Concrete splash apron on the WS. [Additional Reference(s): DWR Levee Logs, 1990. USACE Sacramento O&M Manual 515, April 1955 (Station 5+20"A"). USACE As-built Drawing 50-4-2637, Exhibit B, Sheet 4, April 1950 (Station 5+20"A")]. FS Date: 11/22/2016 9:27:49 AM					

Photo 1 of 3 : UCIP_SP_2017_50906_68064.jpg



Concrete headwall and slide gate at LS toe.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	05/02/2017 05/02/2017	Bob Duffey

LM Start	4.03	Rating **	A/W	Issue No.	77 (cont)
LM End	4.03	Issue Type +	Ma	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.562271 °	39.562271 °
				-121.829610 °	-121.829610 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:50906
DS_ID:1647
EP_NO: N/A
Repair Type: No Action Needed
Crossing Status: Found
UCIP Comments: 11/14/2016 Crossing appears to be in good condition. (DWR Sutter Yard- A Freitag) 5/23/2016 Crossing appears to be in good condition. 7/28/2015 Pipe appears in good condition. No noticeable issues to report. 6/6/2013 Same as last inspection. 11/12/2013 Same as last inspection. 6/04/2014 Same as last inspection. 11/25/2014 Same as last inspection.
FIELD_STRUCT_DESC: 30-inch corrugated metal drainage pipe through the levee, 14.3 feet below the crown. Slide gate on the landside (LS), flap gate on the waterside (WS). Concrete headwall at the LS toe. Concrete splash apron on the WS. [Additional Reference(s): DWR Levee Logs, 1990. USACE Sacramento O&M Manual 515, April 1955 (Station 5+20"A"). USACE As-built Drawing 50-4-2637, Exhibit B, Sheet 4, April 1950 (Station 5+20"A")].
FS Date: 11/22/2016 9:27:49 AM

LM Start	4.03	Rating **	A/W	Issue No.	77 (cont)
LM End	4.03	Issue Type +	Ma	Location *	LS

Photo 2 of 3 : UCIP_SP_2017_50906_68063.jpg



Concrete headwall and slide gate at LS toe.

Photo 3 of 3 : UCIP_SP_2017_50906_68062.jpg



Flap gate at outlet on WS berm.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	05/02/2017 05/02/2017	Bob Duffey

LM Start	4.09	Rating **	M	Issue No.	78
LM End	4.09	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.562875 °	39.562875 °
				-121.828782 °	-121.828782 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:48780
DS_ID:16300
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 5/23/2016 Crossing is not abandoned. Water was flowing through from the LS to WS. LS pipe inlet is about 100 yds from LS levee toe across the LS canal.7/28/2015 Crossing is listed as abandoned but it is not filled with concrete like crossings 1-4 here.11/25/2014 Same as last inspection.6/04/2014 Same as last inspection.11/13/2013 Same as last inspection.6/6/2013 Sutter Maintenance Yard supervisor Jason Cooper said there is a flap gate on the LS end of the pipe in the western most ditch to prevent high water flooding. Not sure if this is adequate, will talk to levee inspector to find out.11/01/2012 Pipe open on WS and is not filled with concrete.
FIELD_STRUCT_DESC: 5 of 5: 60-inch corrugated metal drainage (originally irrigation) pipe through the levee, 16.6 feet below the crown. Concrete headwall on the landside (LS) and the waterside (WS) shoulders. Pipe partially plugged on the LS with a concrete wall. Flap gate installed on the concrete plug to allow floodwater from the LS to flow to the WS (Use changed after western canal realignment under Permit No. 16667, 1997 - Western Canal WD). [Additional Reference(s): DWR Levee Logs, 1990. USACE Sacramento O&M Manual 515, April 1955 (Station 2+00"A")].
FS Date: 5/25/2016 12:55:00 PM

LM Start	4.09	Rating **	M	Issue No.	78 (cont)
LM End	4.09	Issue Type +	En	Location *	LS

Photo 1 of 3 : UCIP_SP_2017_48780_68084.jpg



Concrete headwall on LS shoulder

Photo 2 of 3 : UCIP_SP_2017_48780_68083.jpg



Concrete headwall on WS shoulder.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	05/02/2017 05/02/2017	Bob Duffey

LM Start	4.09	Rating **	M	Issue No.	78 (cont)	
LM End	4.09	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.562875 °	39.562875 °	
				-121.828782 °	-121.828782 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:48780 DS_ID:16300 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/23/2016 Crossing is not abandoned. Water was flowing through from the LS to WS. LS pipe inlet is about 100 yds from LS levee toe across the LS canal.7/28/2015 Crossing is listed as abandoned but it is not filled with concrete like crossings 1-4 here.11/25/2014 Same as last inspection.6/04/2014 Same as last inspection.11/13/2013 Same as last inspection.6/6/2013 Sutter Maintenance Yard supervisor Jason Cooper said there is a flap gate on the LS end of the pipe in the western most ditch to prevent high water flooding. Not sure if this is adequate, will talk to levee inspector to find out.11/01/2012 Pipe open on WS and is not filled with concrete. FIELD_STRUCT_DESC: 5 of 5: 60-inch corrugated metal drainage (originally irrigation) pipe through the levee, 16.6 feet below the crown. Concrete headwall on the landside (LS) and the waterside (WS) shoulders. Pipe partially plugged on the LS with a concrete wall. Flap gate installed on the concrete plug to allow floodwater from the LS to flow to the WS (Use changed after western canal realignment under Permit No. 16667, 1997 - Western Canal WD). [Additional Reference(s): DWR Levee Logs, 1990. USACE Sacramento O&M Manual 515, April 1955 (Station 2+00"A")]. FS Date: 5/25/2016 12:55:00 PM						

Photo 3 of 3 : UCIP_SP_2017_48780_68082.jpg



60-inch cmp open on WS.

LM Start	4.91	Rating **	M	Issue No.	51
LM End	4.91	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			39.571258 °	39.571258 °
				-121.818045 °	-121.818045 °
DWR ID	DWR_MA0005_02_f_2016_51				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 1 : SP_2017_MA0005_197_51_20170315_00026.jpg



View of the rodent holes along the landside slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	05/02/2017 05/02/2017	Bob Duffey

LM Start	5.35	Rating **	M	Issue No.	79
LM End	5.35	Issue Type +	Ma	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.576008 °	39.576008 °
				-121.812599 °	-121.812599 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:50920 DS_ID:1650 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 11/14/2016 Abandoned. (DWR Sutter Yard-AFreitag)5/23/2016 Abandoned7/28/2015 Abandoned- still cannot locate a LS ans WS pipe end.11/25/2014 Same as last inspection.6/04/2014 Same as last inspection.11/12/2013 Same as last inspection.6/6/2013 Same as last inspection.10/31/2012 Appears abandoned. Unable to locate outfall on WS. Unable to locate inlet on LS. FIELD_STRUCT_DESC: *ABANDONED* 24-inch corrugated metal drainage pipe through the levee, 12.5 feet below the crown. Slide gate and flap gate in a 56-inch corrugated metal riser on the waterside (WS) berm. Flap gate on the WS. [Additional Reference(s): DWR Levee Logs, 1990. USACE Sacramento O&M Manual 515, April 1955 (Station 688+40). USACE As-built Drawing 50-4-2637, Exhibit B, Sheet 3, April 1950 (Station 688+40)]. FS Date: 11/22/2016 10:09:44 AM					

LM Start	5.35	Rating **	M	Issue No.	79 (cont)
LM End	5.35	Issue Type +	Ma	Location *	LS

Photo 1 of 2 : UCIP_SP_2017_50920_68105.jpg



Slide gate and flap gate inside CMP riser on WS berm.

Photo 2 of 2 : UCIP_SP_2017_50920_68104.jpg



56-inch CMP riser on WS berm.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	05/02/2017 05/02/2017	Bob Duffey

LM Start	5.89	Rating **	M	Issue No.	52
LM End	5.89	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			39.582914 °	39.582914 °
				-121.807534 °	-121.807534 °
DWR ID	DWR_MA0005_02_f_2016_52				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 1 : SP_2017_MA0005_197_52_20170315_00027.jpg



View of the rodent holes along the landside slope.

LM Start	5.91	Rating **	M	Issue No.	34
LM End	5.91	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.583052 °	39.583052 °
				-121.807423 °	-121.807423 °
DWR ID	DWR_MA0005_02_s_2015_34				
Comment Code					
PR : Prunings					
Inspector Comment					
Remove the prunings and broken metal and concrete pipes from the landside toe.					

Photo 1 of 1 : SP_2017_MA0005_197_34_20170315_00011.jpg



View of the prunings along the landside toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	05/02/2017 05/02/2017	Bob Duffey

LM Start	6.47	Rating **	A/W	Issue No.	80
LM End	6.47	Issue Type +	Ma	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.589146 °	39.589146 °
				-121.800463 °	-121.800463 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:50927
DS_ID:1654
EP_NO: N/A
Repair Type: No Action Needed
Crossing Status: Found
UCIP Comments: 11/14/2016 Crossing appears to be in good condition. (DWR Sutter Yard- A Freitag) 5/23/2016 Crossing appears to be in good condition. 7/28/2015 Crossing appears in good condition. No noticeable issues to report. 11/24/2014 Same as last inspection. 6/04/2014 Same as last inspection. 11/12/2013 Same as last inspection. 6/6/2013 Same as last inspection.
FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 9.4 feet below the crown. Flap gate on the waterside (WS). Concrete headwall at both landside (LS) and WS toes.
[Additional Reference(s): DWR Levee Logs, 1990. USACE Sacramento O&M Manual 515, April 1955 (Station 627+00). USACE As-built Drawing 50-4-2637, Exhibit B, Sheet 3, April 1950 (Station 627+00)].
FS Date: 11/22/2016 10:17:04 AM

LM Start	6.47	Rating **	A/W	Issue No.	80 (cont)
LM End	6.47	Issue Type +	Ma	Location *	LS

Photo 1 of 3 : UCIP_SP_2017_50927_68122.jpg



Flap gate on WS toe.

Photo 2 of 3 : UCIP_SP_2017_50927_68121.jpg



Headwall on LS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	05/02/2017 05/02/2017	Bob Duffey

LM Start	6.47	Rating **	A/W	Issue No.	80 (cont)	
LM End	6.47	Issue Type +	Ma	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.589146 °	39.589146 °	
				-121.800463 °	-121.800463 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:50927 DS_ID:1654 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 11/14/2016 Crossing appears to be in good condition. (DWR Sutter Yard- A Freitag)5/23/2016 Crossing appears to be in good condition.7/28/2015 Crossing appears in good condition. No noticeable issues to report.11/24/2014 Same as last inspection.6/04/2014 Same as last inspection.11/12/2013 Same as last inspection.6/6/2013 Same as last inspection. FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 9.4 feet below the crown. Flap gate on the waterside (WS). Concrete headwall at both landside (LS) and WS toes. [Additional Reference(s): DWR Levee Logs, 1990. USACE Sacramento O&M Manual 515, April 1955 (Station 627+00). USACE As-built Drawing 50-4-2637, Exhibit B, Sheet 3, April 1950 (Station 627+00)]. FS Date: 11/22/2016 10:17:04 AM						

Photo 3 of 3 : UCIP_SP_2017_50927_68120.jpg



Headwall on LS toe.

LM Start	6.47	Rating **	M	Issue No.	71
LM End	6.47	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.589202 °	39.589202 °
				-121.800418 °	-121.800418 °
DWR ID	DWR_MA0005_02_s_2017_71				
Comment Code					
DE : Debris					
Inspector Comment					
Remove the debris from the waterside toe.					

Photo 1 of 1 : SP_2017_MA0005_197_71_20170508_00108.jpg



View of the debris along the waterside toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	05/02/2017 05/02/2017	Bob Duffey

LM Start	7.98	Rating **	M	Issue No.	13
LM End	7.98	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.607710 °	39.607710 °
				-121.785868 °	-121.785868 °
DWR ID	DWR_MA0005_02_s_2012_13				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					

Photo 1 of 2 : SP_2017_MA0005_197_13_20170315_00005.jpg



View of the vehicle erosion along the landside slope.

LM Start	7.98	Rating **	M	Issue No.	13 (cont)
LM End	7.98	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : SP_2017_MA0005_197_13_20170315_00006.jpg



View of the vehicle erosion along the slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	05/02/2017 05/02/2017	Bob Duffey

LM Start	8.00	Rating **	M	Issue No.	81
LM End	8.00	Issue Type +	Ma	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.607802 °	39.607802 °
				-121.785597 °	-121.785597 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:50930
DS_ID:1656
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 11/14/2016 LS inlet almost completely full of soil. (DWR Sutter Yard- A Freitag) 5/23/2016 LS end is almost completely full of soil. 7/28/2015 Pipe is still over 3/4 full of soil. 11/24/2014 Same as last inspection. 6/04/2014 Same as last inspection. 11/12/2013 Same as last inspection. 6/6/2013 Same as last inspection. 10/31/2012 Pipe 3/4 full with soil on LS.
FIELD_STRUCT_DESC: 24-inch (not 18-inch as shown in as-built drawings) corrugated metal drainage pipe through the levee, 6.7 feet below the crown. Concrete headwall at the landside (LS) toe. Flap gate on the waterside (WS). [Additional Reference(s): DWR Levee Logs, 1990. USACE As-Built Drawings 50-4-2637, Exhibit B, Sheet 2, April 1950 (Station 550+60)].
FS Date: 11/22/2016 10:19:47 AM

LM Start	8.00	Rating **	M	Issue No.	81 (cont)
LM End	8.00	Issue Type +	Ma	Location *	LS

Photo 1 of 2 : UCIP_SP_2017_50930_68129.jpg



Flap gate at WS toe.

Photo 2 of 2 : UCIP_SP_2017_50930_68128.jpg



Concrete headwall on LS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Sutter Maintenance Yard Maintenance Area 0005

View of the vehicle slope instability along the landside slope.

Concrete inlet on LS toe.

Page 18 of 58

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	05/02/2017 05/02/2017	Bob Duffey

LM Start	8.11	Rating **	A/W	Issue No.	82 (cont)
LM End	8.11	Issue Type +	Ma	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.609162 °	39.609162 °
				-121.784647 °	-121.784647 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:50937
DS_ID:1662
EP_NO: N/A
Repair Type: No Action Needed
Crossing Status: Found
UCIP Comments: 11/14/2016 Crossing appears to be in good condition. (DWR Sutter Yard- A Freitag) 5/12/2016 Crossing appears to be in good condition. 7/30/2015 Crossing is in good condition. No noticeable issues to report. 11/24/2014 Same as last inspection. 6/4/2014 Same as last inspection. 11/13/2013 Same as last inspection. 6/6/2013 Same as last inspection.
FIELD_STRUCT_DESC: 30-inch corrugated metal drainage pipe through the levee, 16.3 feet below the crown. Flap gate on the waterside (WS). Concrete "U" shaped headwalls on both the landside (LS) and the WS. [Additional Reference(s): DWR Levee Logs, 1990. USACE Sacramento O&M Manual 516, April 1960 (Station 374+90). USACE As-built Drawings 50-4-3367, Exhibit B, Sheet 13, April 1957 (Station 374+90)].
FS Date: 11/22/2016 10:35:19 AM

LM Start	8.11	Rating **	A/W	Issue No.	82 (cont)
LM End	8.11	Issue Type +	Ma	Location *	LS

Photo 2 of 3 : UCIP_SP_2017_50937_68393.jpg



Concrete inlet on LS toe.

Photo 3 of 3 : UCIP_SP_2017_50937_68392.jpg



Concrete outlet and flap gate on WS toe.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	05/02/2017 05/02/2017	Bob Duffey

LM Start	8.34	Rating **	M	Issue No.	54
LM End	8.34	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.612230 °	39.612230 °
				-121.782897 °	-121.782897 °
DWR ID	DWR_MA0005_02_f_2016_54				
Comment Code					
PR : Prunings					
Inspector Comment					
Remove the prunings from the landside slope.					

Photo 1 of 1 : SP_2017_MA0005_197_54_20170315_00030.jpg



View of the prunings along the landside toe.

LM Start	8.67	Rating **	M	Issue No.	47
LM End	8.67	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.616370 °	39.616370 °
				-121.779779 °	-121.779779 °
DWR ID	DWR_MA0005_02_s_2016_47				
Comment Code					
PR : Prunings					
Inspector Comment					
Remove the prunings from the landside slope.					

Photo 1 of 1 : SP_2017_MA0005_197_47_20170315_00022.jpg



View of the prunings along the landside toe.

* Location
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

** Rating
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	05/02/2017 05/02/2017	Bob Duffey

LM Start	8.77	Rating **	A/W	Issue No.	83
LM End	8.77	Issue Type +	Ma	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.617747 °	39.617747 °
				-121.778964 °	-121.778964 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:50939
DS_ID:1663
EP_NO: N/A
Repair Type: No Action Needed
Crossing Status: Found
UCIP Comments: 11/14/2016 Crossing appears to be in good condition. (DWR Sutter Yard- A Freitag) 5/12/2016 Crossing appears to be in good condition. 7/30/2015 Crossing appears in good condition. No noticeable issues to report. 11/24/2014 Same as last inspection. 6/4/2014 Same as last inspection. 11/13/2013 Damaged pipe section was dug up and replaced. New WS flapgate with u-shaped wingwall installed on end of pipe. 6/6/2013 Same as last inspection. Plans have been made to repair during summer of 2013 before high water season. 11/01/2012 Pipe rusted through along bottom at WS outlet. Sink hole over pipe on WS berm. WS headwall eroded eternally around backside of headwall.
FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 15 feet below the crown. Flap gate on the waterside (WS). Concrete headwalls on both the landside (LS) and the WS.
[Additional Reference(s): DWR Levee Logs, 1990. USACE As-built Drawings 50-4-3367, Exhibit B, Sheet 11 (Station 340+04)].
FS Date: 11/22/2016 10:36:37 AM

LM Start	8.77	Rating **	A/W	Issue No.	83 (cont)
LM End	8.77	Issue Type +	Ma	Location *	LS

Photo 1 of 3 : UCIP_SP_2017_50939_68397.jpg



Concrete U-shaped headwall on LS toe.

Photo 2 of 3 : UCIP_SP_2017_50939_68396.jpg



Concrete U-shaped headwall on LS toe.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	05/02/2017 05/02/2017	Bob Duffey

LM Start	8.77	Rating **	A/W	Issue No.	83 (cont)
LM End	8.77	Issue Type +	Ma	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.617747 °	39.617747 °
				-121.778964 °	-121.778964 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:50939 DS_ID:1663 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 11/14/2016 Crossing appears to be in good condition. (DWR Sutter Yard- A Freitag)5/12/2016 Crossing appears to be in good condition. 7/30/2015 Crossing appears in good condition. No noticeable issues to report.11/24/2014 Same as last inspection.6/4/2014 Same as last inspection.11/13/2013 Damaged pipe section was dug up and replaced. New WS flapgate with u-shaped wingwall installed on end of pipe.6/6/2013 Same as last inspection. Plans have been made to repair during summer of 2013 before high water season.11/01/2012 Pipe rusted through along bottom at WS outlet. Sink hole over pipe on WS berm. WS headwall eroded eternally around backside of headwall. FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 15 feet below the crown. Flap gate on the waterside (WS). Concrete headwalls on both the landside (LS) and the WS. [Additional Reference(s): DWR Levee Logs, 1990. USACE As-built Drawings 50-4-3367, Exhibit B, Sheet 11 (Station 340+04)]. FS Date: 11/22/2016 10:36:37 AM					

Photo 3 of 3 : UCIP_SP_2017_50939_68395.jpg



Concrete U shaped outlet and flap gate at WS of Berm.

LM Start	8.77	Rating **	M	Issue No.	46
LM End	8.77	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.617750 °	39.617750 °
				-121.778981 °	-121.778981 °
DWR ID	DWR_MA0005_02_s_2016_46				
Comment Code					
PR : Prunings					
Inspector Comment					
Remove the prunings from the landside slope.					

Photo 1 of 1 : SP_2017_MA0005_197_46_20170315_00021.jpg



View of the prunings along the landside toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	05/02/2017 05/02/2017	Bob Duffey

LM Start	8.80	Rating **	M	Issue No.	84
LM End	8.80	Issue Type +	Ma	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.618163 °	39.618163 °
				-121.778745 °	-121.778745 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:50940 DS_ID:1664 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 11/14/2016 LS slide gate still missing. Rest of crossing appears in good condition. (DWR Sutter Yard-AFreitag)5/12/2016 LS inlet was unburied. Slide gate still missing7/30/2015 LS inlet is still buried.11/24/2014 Same as last inspection.6/4/2014 Same as last inspection.11/13/2013 Same as last inspection.6/6/2013 Same as last inspection.11/01/2012 LS inlet is buried under soil and covered with brambles. Slide gate missing from LS. FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 12 feet below the crown. Flap gate on the waterside (WS). Concrete headwall on the WS. Concrete headwall on the landside (LS), not found. [Additional Reference(s): DWR Levee Logs, 1990. USACE Sacramento O&M Manual 516, April 1960 (Station 338+04). USACE As-built Drawings 50-4-3367, April 1957, Exhibit B, Sheet 11 (Station 338+04)]. FS Date: 11/22/2016 10:37:46 AM					

LM Start	8.80	Rating **	M	Issue No.	84 (cont)
LM End	8.80	Issue Type +	Ma	Location *	LS

Photo 1 of 3 : UCIP_SP_2017_50940_68406.jpg



WS outlet and concrete U shaped headwall.

Photo 2 of 3 : UCIP_SP_2017_50940_68404.jpg



Brambles and soil over pipe at inlet.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	05/02/2017 05/02/2017	Bob Duffey

LM Start	8.80	Rating **	M	Issue No.	84 (cont)	
LM End	8.80	Issue Type +	Ma	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.618163 °	39.618163 °	
				-121.778745 °	-121.778745 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:50940 DS_ID:1664 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 11/14/2016 LS slide gate still missing. Rest of crossing appears in good condition. (DWR Sutter Yard-AFreitag)5/12/2016 LS inlet was unburied. Slide gate still missing7/30/2015 LS inlet is still buried.11/24/2014 Same as last inspection.6/4/2014 Same as last inspection.11/13/2013 Same as last inspection.6/6/2013 Same as last inspection.11/01/2012 LS inlet is buried under soil and covered with brambles. Slide gate missing from LS. FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 12 feet below the crown. Flap gate on the waterside (WS). Concrete headwall on the WS. Concrete headwall on the landside (LS), not found. [Additional Reference(s): DWR Levee Logs, 1990. USACE Sacramento O&M Manual 516, April 1960 (Station 338+04). USACE As-built Drawings 50-4-3367, April 1957, Exhibit B, Sheet 11 (Station 338+04)]. FS Date: 11/22/2016 10:37:46 AM						

Photo 3 of 3 : UCIP_SP_2017_50940_68403.jpg



Concrete U shaped headwall and flap gate at WS toe.

LM Start	9.09	Rating **	M	Issue No.	45
LM End	9.09	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.622017 °	39.622017 °
				-121.776552 °	-121.776552 °
DWR ID	DWR_MA0005_02_s_2016_45				
Comment Code					
EQ : Equipment					
Inspector Comment					

Photo 1 of 1 : SP_2017_MA0005_197_45_20170315_00020.jpg



Remove equipment and materials from the landside toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	05/02/2017 05/02/2017	Bob Duffey

LM Start	9.12	Rating **	A/W	Issue No.	85
LM End	9.12	Issue Type +	Ma	Location *	LS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		39.622377 °	39.622377 °	
			-121.776327 °	-121.776327 °	
DWR ID					

Comment Code

Inspector Comment

FS_ID:50941
DS_ID:1665
EP_NO: N/A
Repair Type: No Action Needed
Crossing Status: Found
UCIP Comments: 11/14/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)5/12/2016 Crossing appears to be in good condition.7/30/2015 Crossing appears in good condition. No noticeable issues to report.11/24/2014 Same as last inspection.6/4/2014 Same as last inspection.11/13/2013 Same as last inspection.6/6/2013 Same as last inspection.
FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 11.3 feet below the crown. Flap gate on the waterside (WS). Concrete headwalls on both the landside (LS) and the WS. [Additional Reference(s): DWR Levee Logs, 1990. USACE Sacramento O&M Manual 516, April 1960 (Station 321+20)].
FS Date: 11/22/2016 11:46:50 AM

LM Start	9.12	Rating **	A/W	Issue No.	85 (cont)
LM End	9.12	Issue Type +	Ma	Location *	LS

Photo 1 of 3 : UCIP_SP_2017_50941_68413.jpg



Concrete U shaped headwall and flap gate on WS toe.

Photo 2 of 3 : UCIP_SP_2017_50941_68412.jpg



Concrete U shaped headwall on LS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	05/02/2017 05/02/2017	Bob Duffey

LM Start	9.12	Rating **	A/W	Issue No.	85 (cont)	
LM End	9.12	Issue Type +	Ma	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.622377 °	39.622377 °	
				-121.776327 °	-121.776327 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:50941						
DS_ID:1665						
EP_NO: N/A						
Repair Type: No Action Needed						
Crossing Status: Found						
UCIP Comments: 11/14/2016 Crossing appears to be in good condition. (DWR Sutter Yard- A Freitag)5/12/2016 Crossing appears to be in good condition. 7/30/2015 Crossing appears in good condition. No noticeable issues to report.11/24/2014 Same as last inspection.6/4/2014 Same as last inspection.11/13/2013 Same as last inspection.6/6/2013 Same as last inspection.						
FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 11.3 feet below the crown. Flap gate on the waterside (WS). Concrete headwalls on both the landside (LS) and the WS. [Additional Reference(s): DWR Levee Logs, 1990. USACE Sacramento O&M Manual 516, April 1960 (Station 321+20)].						
FS Date: 11/22/2016 11:46:50 AM						

Photo 3 of 3 : UCIP_SP_2017_50941_68411.jpg



Concrete U shaped headwall on LS toe.

LM Start	9.43	Rating **	M	Issue No.	55
LM End	9.43	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.626780 °	39.626780 °
				-121.775198 °	-121.775198 °
DWR ID	DWR_MA0005_02_f_2016_55				
Comment Code					
PR : Prunings					
Inspector Comment					
Remove the prunings from the landside slope.					

Photo 1 of 1 : SP_2017_MA0005_197_55_20170315_00031.jpg



View of the prunings along the landside toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	05/02/2017 05/02/2017	Bob Duffey

LM Start	9.44	Rating **	M	Issue No.	86
LM End	9.44	Issue Type +	Ma	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.626894 °	39.626894 °
				-121.775180 °	-121.775180 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:50942 DS_ID:1666 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 11/14/2016 LS pipe inlet is half full of soil. WS flap gate shut but half buried by sediment. (DWR Sutter Yard-AFreitag)5/12/2016 Pipe is half full of soil.7/30/2015 Pipe is 1/4 to 1/2 full of soil still.11/24/2014 Same as last inspection.6/4/2014 Same as last inspection.11/13/2013 Same as last inspection.6/6/2013 Same as last inspection.11/01/2012 Pipe 1/2 filled with soil. FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 11.2 feet below the crown. Flap gate on the waterside (WS). Concrete "U" shaped headwalls on both the landside (LS) and the WS. [Additional Reference(s): DWR Levee Logs, 1990. USACE Sacramento O&M Manual 516, April 1960 (Station 304+10). USACE As-built Drawings 50-4-3367, April 1957, Exhibit B, Sheet 3 (Station 304+10)]. FS Date: 11/22/2016 12:04:57 PM					

LM Start	9.44	Rating **	M	Issue No.	86 (cont)
LM End	9.44	Issue Type +	Ma	Location *	LS

Photo 1 of 3 : UCIP_SP_2017_50942_68417.jpg



View of outlet looking toward WS toe.

Photo 2 of 3 : UCIP_SP_2017_50942_68416.jpg



View of inlet on LS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	05/02/2017 05/02/2017	Bob Duffey

LM Start	9.44	Rating **	M	Issue No.	86 (cont)	
LM End	9.44	Issue Type +	Ma	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.626894 °	39.626894 °	
				-121.775180 °	-121.775180 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:50942 DS_ID:1666 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 11/14/2016 LS pipe inlet is half full of soil. WS flap gate shut but half buried by sediment. (DWR Sutter Yard-AFreitag)5/12/2016 Pipe is half full of soil.7/30/2015 Pipe is 1/4 to 1/2 full of soil still.11/24/2014 Same as last inspection.6/4/2014 Same as last inspection.11/13/2013 Same as last inspection.6/6/2013 Same as last inspection.11/01/2012 Pipe 1/2 filled with soil. FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 11.2 feet below the crown. Flap gate on the waterside (WS). Concrete "U" shaped headwalls on both the landside (LS) and the WS. [Additional Reference(s): DWR Levee Logs, 1990. USACE Sacramento O&M Manual 516, April 1960 (Station 304+10). USACE As-built Drawings 50-4-3367, April 1957, Exhibit B, Sheet 3 (Station 304+10)]. FS Date: 11/22/2016 12:04:57 PM						

Photo 3 of 3 : UCIP_SP_2017_50942_68415.jpg



Concrete U-shaped headwall on LS toe.

LM Start	9.72	Rating **	M	Issue No.	56
LM End	9.72	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.630937 °	39.630937 °
				-121.774960 °	-121.774960 °
DWR ID	DWR_MA0005_02_f_2016_56				
Comment Code					
PR : Prunings					
Inspector Comment					

Photo 1 of 1 : SP_2017_MA0005_197_56_20170315_00032.jpg



View of the prunings along the landside toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	05/02/2017 05/02/2017	Bob Duffey

LM Start	9.92	Rating **	M	Issue No.	72
LM End	9.92	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.633392 °	39.633392 °
				-121.776963 °	-121.776963 °
DWR ID	DWR_MA0005_02_s_2017_72				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Remove the tree from the waterside toe.					

Photo 1 of 1 : SP_2017_MA0005_197_72_20170508_00110.jpg



View of the tree along the waterside toe.

LM Start	10.36	Rating **	M	Issue No.	73
LM End	10.36	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.638777 °	39.638777 °
				-121.781155 °	-121.781155 °
DWR ID	DWR_MA0005_02_s_2017_73				
Comment Code					
TR : Tree or limb					
Inspector Comment					

No Photos

LM Start	10.38	Rating **	M	Issue No.	3
LM End	10.38	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.639018 °	39.639018 °
				-121.781458 °	-121.781458 °
DWR ID	DWR_MA0005_02_s_2012_3				
Comment Code					
PR : Prunings					
Inspector Comment					

Photo 1 of 1 : SP_2017_MA0005_197_3_20170315_00002.jpg



View of the prunings along the landside toe.

* Location
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

** Rating
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	05/02/2017 05/02/2017	Bob Duffey

LM Start	10.47	Rating **	M	Issue No.	57
LM End	10.47	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.640156 °	39.640156 °
				-121.782397 °	-121.782397 °
DWR ID	DWR_MA0005_02_f_2016_57				
Comment Code					
MA : Material					
Inspector Comment					
Remove broken concrete pipes from the landside toe.					

Photo 1 of 1 : SP_2017_MA0005_197_57_20170315_00033.jpg



View of the broken concrete pipes along the landside toe.

LM Start	10.63	Rating **	M	Issue No.	18
LM End	10.63	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.642061 °	39.642061 °
				-121.783861 °	-121.783861 °
DWR ID	DWR_MA0005_02_s_2012_18				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					

Photo 1 of 1 : SP_2017_MA0005_197_18_20170315_00007.jpg



View of the vehicle erosion along the slope of the levee.

LM Start	10.90	Rating **	U	Issue No.	41
LM End	10.93	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.645508 °	39.645858 °
				-121.786515 °	-121.786742 °
DWR ID	DWR_MA0005_02_f_2014_41				
Comment Code					
FE : Fence					
Inspector Comment					
Remove or apply for permit for the fence along landside toe					

Photo 1 of 1 : SP_2017_MA0005_197_41_20170315_00017.jpg



View of the new fence along the landside toe.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	05/02/2017 05/02/2017	Bob Duffey

LM Start	10.95	Rating **	M	Issue No.	58
LM End	10.95	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.646045 °	39.646045 °
				-121.786927 °	-121.786927 °
DWR ID	DWR_MA0005_02_f_2016_58				
Comment Code					
S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.					
Inspector Comment					

Photo 1 of 1 : SP_2017_MA0005_197_58_20170315_00034.jpg



View of the damaged landside slope.

LM Start	10.96	Rating **	M	Issue No.	59
LM End	10.99	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			39.646220 °	39.646598 °
				-121.787055 °	-121.787365 °
DWR ID	DWR_MA0005_02_f_2016_59				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

LM Start	11.04	Rating **	U	Issue No.	60
LM End	11.04	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.647238 °	39.647238 °
				-121.787866 °	-121.787866 °
DWR ID	DWR_MA0005_02_f_2016_60				
Comment Code					
FE : Fence					
Inspector Comment					
Apply for permit or remove the fence post.					

Photo 1 of 1 : SP_2017_MA0005_197_60_20170315_00035.jpg



View of a newly constructed fence.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	05/02/2017 05/02/2017	Bob Duffey

LM Start	11.05	Rating **	M	Issue No.	26
LM End	11.05	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.647400 °	39.647400 °
				-121.787825 °	-121.787825 °
DWR ID	DWR_MA0005_02_f_2012_26				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

LM Start	11.10	Rating **	M	Issue No.	36
LM End	11.10	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.647913 °	39.647913 °
				-121.788330 °	-121.788330 °
DWR ID	DWR_MA0005_02_s_2015_36				
Comment Code					
TR : Tree or limb					
Inspector Comment					

Photo 1 of 1 : SP_2017_MA0005_197_36_20170315_00013.jpg



Remove the tree log from the landside toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	05/02/2017 05/02/2017	Bob Duffey

LM Start	11.12	Rating **	M	Issue No.	87
LM End	11.12	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.648169 °	39.648169 °
				-121.788541 °	-121.788541 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:50947
DS_ID:1670
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 11/14/2016 Appears abandoned- Slide gates in WS riser and LS distribution box missing. (DWR Sutter Yard-AFreitag)5/11/2016 Crossing appears to be in good condition.7/30/2015 Crossing appears in good condition. No noticeable issues to report.11/24/2014 Same as last inspection.6/4/2014 Same as last inspection.11/13/2013 Same as last inspection.6/6/2013 New flap gate installed on WS end of pipe.
FIELD_STRUCT_DESC: 24-inch (not 18-inch concrete as shown in as-built drawings) corrugated metal irrigation pipe through the levee, 9.7 feet below the crown. Slide gate in corrugated metal riser on the waterside (WS) slope. Flap gate on the WS toe. Slide gate in concrete distribution box on the landside (LS). [Additional Reference(s): DWR Levee Logs, 1990. USACE Sacramento O&M Manual 516, April 1960 (Station 215+65). USACE As-built Drawings 50-4-3367, April 1957, Exhibit B, Sheet 2 (Station 215+65)].
FS Date: 11/22/2016 12:31:54 PM

LM Start	11.12	Rating **	M	Issue No.	87 (cont)
LM End	11.12	Issue Type +	En	Location *	LS

Photo 1 of 3 : UCIP_SP_2017_50947_68429.jpg



CM riser on WS shoulder-missing slide gate.

Photo 2 of 3 : UCIP_SP_2017_50947_68433.jpg



Distribution box on LS toe. Missing slide gate at pipe entrance.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	05/02/2017 05/02/2017	Bob Duffey

LM Start	11.12	Rating **	M	Issue No.	87 (cont)	
LM End	11.12	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			39.648169 °		39.648169 °
				-121.788541 °		-121.788541 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:50947 DS_ID:1670 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 11/14/2016 Appears abandoned- Slide gates in WS riser and LS distribution box missing. (DWR Sutter Yard-AFreitag)5/11/2016 Crossing appears to be in good condition.7/30/2015 Crossing appears in good condition. No noticeable issues to report.11/24/2014 Same as last inspection.6/4/2014 Same as last inspection.11/13/2013 Same as last inspection.6/6/2013 New flap gate installed on WS end of pipe. FIELD_STRUCT_DESC: 24-inch (not 18-inch concrete as shown in as-built drawings) corrugated metal irrigation pipe through the levee, 9.7 feet below the crown. Slide gate in corrugated metal riser on the waterside (WS) slope. Flap gate on the WS toe. Slide gate in concrete distribution box on the landside (LS). [Additional Reference(s): DWR Levee Logs, 1990. USACE Sacramento O&M Manual 516, April 1960 (Station 215+65). USACE As-built Drawings 50-4-3367, April 1957, Exhibit B, Sheet 2 (Station 215+65)]. FS Date: 11/22/2016 12:31:54 PM						

Photo 3 of 3 : UCIP_SP_2017_50947_68432.jpg



View of pipe from WS looking toward LS.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	05/02/2017 05/02/2017	Bob Duffey

LM Start	11.12	Rating **	M	Issue No.	88
LM End	11.12	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.648185 °	39.648185 °
				-121.788563 °	-121.788563 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:50948 DS_ID:1671 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 11/14/2016 Appears abandoned. (DWR Sutter Yard-AFreitag)5/11/2016 Abandoned crossing7/30/2015 Abandoned crossing. Unable to locate the WS end of pipe.11/24/2014 Same as last inspection.6/4/2014 Same as last inspection.11/13/2013 Same as last inspection.6/6/2013 Same as last inspection.11/01/2012 Pipe appears abandoned. It needs to be abandoned properly. FIELD_STRUCT_DESC: 30-inch corrugated metal irrigation pipe through the levee, 9.4 feet below the crown. Slide gate in a 42-inch corrugated metal riser on the waterside (WS) slope. Concrete distribution box on the landside (LS). [Additional Reference(s): DWR Levee Logs, 1990. USACE Sacramento O&M Manual 516, April 1960 (Station 215+46)]. FS Date: 11/22/2016 12:47:44 PM					

Photo 1 of 3 : UCIP_SP_2017_50948_68436.jpg



Pipe at concrete distribution box on LS toe.

LM Start	11.12	Rating **	M	Issue No.	88 (cont)
LM End	11.12	Issue Type +	En	Location *	LS

Photo 2 of 3 : UCIP_SP_2017_50948_68435.jpg



CM riser with slide gate on WS shoulder.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	05/02/2017 05/02/2017	Bob Duffey

LM Start	11.12	Rating **	M	Issue No.	88 (cont)	
LM End	11.12	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.648185 °	39.648185 °	
				-121.788563 °	-121.788563 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:50948 DS_ID:1671 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 11/14/2016 Appears abandoned. (DWR Sutter Yard-AFreitag)5/11/2016 Abandoned crossing7/30/2015 Abandoned crossing. Unable to locate the WS end of pipe.11/24/2014 Same as last inspection.6/4/2014 Same as last inspection.11/13/2013 Same as last inspection.6/6/2013 Same as last inspection.11/01/2012 Pipe appears abandoned. It needs to be abandoned properly. FIELD_STRUCT_DESC: 30-inch corrugated metal irrigation pipe through the levee, 9.4 feet below the crown. Slide gate in a 42-inch corrugated metal riser on the waterside (WS) slope. Concrete distribution box on the landside (LS). [Additional Reference(s): DWR Levee Logs, 1990. USACE Sacramento O&M Manual 516, April 1960 (Station 215+46)]. FS Date: 11/22/2016 12:47:44 PM						

Photo 3 of 3 : UCIP_SP_2017_50948_68434.jpg



Concrete pipe at edge of creek on WS.

LM Start	11.57	Rating **	M	Issue No.	6
LM End	11.77	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.654349 °	39.657142 °
				-121.789531 °	-121.788690 °
DWR ID	DWR_MA0005_02_s_2012_6				
Comment Code					
DT : Ditch					
Inspector Comment					

Photo 1 of 1 : SP_2017_MA0005_197_6_20170315_00003.jpg



View of the ditch along the Landside toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	05/02/2017 05/02/2017	Bob Duffey

LM Start	12.06	Rating **	M	Issue No.	89
LM End	12.06	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.660980 °	39.660980 °
				-121.786341 °	-121.786341 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:50949
DS_ID:1672
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 11/14/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)5/11/2016 Crossing appears to be in good condition.7/30/2015 Crossing is not abandoned. Water was flowing through the standpipe on the WS shoulder. Unable to locate the source of the water or where it was flowing to.11/24/2014 Same as last inspection.6/4/2014 Same as last inspection.11/13/2013 Same as last inspection.6/6/2013 Same as last inspection.11/01/2012 This pipe appears to be abandoned.
FIELD_STRUCT_DESC: 30-inch corrugated metal irrigation pipe through the levee, 12.3 feet below the crown. Slide gate in a 42-inch corrugated metal riser on the waterside (WS) slope. 5-foot by 5-foot Concrete distribution box at landside (LS) toe. [Additional Reference(s): DWR Levee Logs, 1990. USACE Sacramento O&M Manual 516, April 1960 (Station 165+60)].
FS Date: 11/22/2016 12:56:17 PM

LM Start	12.06	Rating **	M	Issue No.	89 (cont)
LM End	12.06	Issue Type +	En	Location *	LS

Photo 1 of 3 : UCIP_SP_2017_50949_68439.jpg



5X5 concrete distribution box at LS toe.

Photo 2 of 3 : UCIP_SP_2017_50949_68438.jpg



42-inch CMP riser on WS shoulder with slide gate.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	05/02/2017 05/02/2017	Bob Duffey

LM Start	12.06	Rating **	M	Issue No.	89 (cont)	
LM End	12.06	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.660980 °	39.660980 °	
				-121.786341 °	-121.786341 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:50949 DS_ID:1672 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 11/14/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)5/11/2016 Crossing appears to be in good condition.7/30/2015 Crossing is not abandoned. Water was flowing through the standpipe on the WS shoulder. Unable to locate the source of the water or where it was flowing to.11/24/2014 Same as last inspection.6/4/2014 Same as last inspection.11/13/2013 Same as last inspection.6/6/2013 Same as last inspection.11/01/2012 This pipe appears to be abandoned. FIELD_STRUCT_DESC: 30-inch corrugated metal irrigation pipe through the levee, 12.3 feet below the crown. Slide gate in a 42-inch corrugated metal riser on the waterside (WS) slope. 5-foot by 5-foot Concrete distribution box at landside (LS) toe. [Additional Reference(s): DWR Levee Logs, 1990. USACE Sacramento O&M Manual 516, April 1960 (Station 165+60)]. FS Date: 11/22/2016 12:56:17 PM						

Photo 3 of 3 : UCIP_SP_2017_50949_68437.jpg



Pipe at inlet to 5X5 concrete distribution box at LS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	05/02/2017 05/02/2017	Bob Duffey

LM Start	12.80	Rating **	M	Issue No.	90
LM End	12.80	Issue Type +	Ma	Location *	LS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		39.670982 °	39.670982 °	
			-121.783103 °	-121.783103 °	
DWR ID					

Comment Code

Inspector Comment

FS_ID:50950
DS_ID:1673
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 11/14/2016 Abandoned- needs a cover for standpipe. (DWR Sutter Yard- AFreitag)5/11/2016 Abandoned crossing. Needs a cover for the WS riser.8/3/2015 Crossing appears abandoned. Only the slide gate inside riser on the WS shoulder could be found. Riser needs a cover made for it.11/24/2014 Same as last inspection.6/4/2014 Same as last inspection.11/13/2013 Slide gate top and stem were repaired to make gate operational.6/6/2013 New slidegate is planned to be installed during summer of 2013.11/01/2012 Slide gate on WS shoulder bent and damaged (inoperable) Pipe appears abandoned.
FIELD_STRUCT_DESC: *ABANDONED* 24-inch corrugated metal drainage pipe through the levee, 14 feet below the crown. Slide gate in a corrugated metal riser on the waterside (WS) slope. [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual 516, April 1960 (Station 126+91)].
FS Date: 11/22/2016 12:57:09 PM

LM Start	12.80	Rating **	M	Issue No.	90 (cont)
LM End	12.80	Issue Type +	Ma	Location *	LS

Photo 1 of 3 : UCIP_SP_2017_50950_68465.jpg



Broken slide gate in CM riser on WS slope.

Photo 2 of 3 : UCIP_SP_2017_50950_68464.jpg



Abandoned headwall on LS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	05/02/2017 05/02/2017	Bob Duffey

LM Start	12.80	Rating **	M	Issue No.	90 (cont)	
LM End	12.80	Issue Type +	Ma	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			39.670982 °		39.670982 °
				-121.783103 °		-121.783103 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:50950 DS_ID:1673 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 11/14/2016 Abandoned- needs a cover for standpipe. (DWR Sutter Yard- A/Freitag)5/11/2016 Abandoned crossing. Needs a cover for the WS riser.8/3/2015 Crossing appears abandoned. Only the slide gate inside riser on the WS shoulder could be found. Riser needs a cover made for it.11/24/2014 Same as last inspection.6/4/2014 Same as last inspection.11/13/2013 Slide gate top and stem were repaired to make gate operational.6/6/2013 New slidegate is planned to be installed during summer of 2013.11/01/2012 Slide gate on WS shoulder bent and damaged (inoperable) Pipe appears abandoned. FIELD_STRUCT_DESC: *ABANDONED* 24-inch corrugated metal drainage pipe through the levee, 14 feet below the crown. Slide gate in a corrugated metal riser on the waterside (WS) slope. [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual 516, April 1960 (Station 126+91)]. FS Date: 11/22/2016 12:57:09 PM						

Photo 3 of 3 : UCIP_SP_2017_50950_68463.jpg



Broken slide gate in CM riser on WS slope.

LM Start	12.83	Rating **	M	Issue No.	19
LM End	12.83	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.671239 °	39.671239 °
				-121.782486 °	-121.782486 °
DWR ID	DWR_MA0005_02_s_2012_19				
Comment Code					
PR : Prunings					
Inspector Comment					

Photo 1 of 1 : SP_2017_MA0005_197_19_20170315_00008.jpg



View of the brush pile at the toe of the levee.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	05/02/2017 05/02/2017	Bob Duffey

LM Start	13.02	Rating **	M	Issue No.	44
LM End	13.02	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.673685 °	39.673685 °
				-121.781313 °	-121.781313 °
DWR ID	DWR_MA0005_02_s_2016_44				
Comment Code					
FW : Firewood					
Inspector Comment					

No Photos

LM Start	13.04	Rating **	M	Issue No.	5
LM End	13.04	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.673956 °	39.673956 °
				-121.781278 °	-121.781278 °
DWR ID	DWR_MA0005_02_s_2012_5				
Comment Code					
EQ : Equipment					
Inspector Comment					

No Photos

LM Start	13.06	Rating **	M	Issue No.	42
LM End	13.06	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.674219 °	39.674219 °
				-121.781188 °	-121.781188 °
DWR ID	DWR_MA0005_02_s_2016_42				
Comment Code					
FW : Firewood					
Inspector Comment					

Photo 1 of 1 : SP_2017_MA0005_197_42_20170315_00018.jpg



View of the firewood pile at the landside toe.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	05/02/2017 05/02/2017	Bob Duffey

LM Start	13.15	Rating **	M	Issue No.	22
LM End	13.15	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.675311 °	39.675311 °
				-121.780371 °	-121.780371 °
DWR ID	DWR_MA0005_02_s_2013_22				
Comment Code					
PR : Prunings					
Inspector Comment					

Photo 1 of 1 : SP_2017_MA0005_197_22_20170315_00009.jpg



View of the prunings along the waterside toe.

LM Start	13.15	Rating **	M	Issue No.	91
LM End	13.15	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.675379 °	39.675379 °
				-121.780319 °	-121.780319 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:50951 DS_ID:1674 EP_NO: 1291 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 11/14/2016 Appears abandoned- needs to be done so properly (DWR Sutter Yard- AFreitag)5/11/2016 Appears to be an abandoned crossing.8/3/2015 Pipe appears to be abandoned. Pump on WS berm is still missing.11/24/2014 Same as last inspection.6/4/2014 Same as last inspection.11/13/2013 Same as last inspection.6/6/2013 Same as last inspection.11/01/2012 Pipe appears to be abandoned. No pump found. Pipe should be abandoned properly. FIELD_STRUCT_DESC: 24-inch corrugated metal irrigation pipe through the levee, 9.0 feet below the crown. Slide gate in a 36-inch corrugated metal riser on the waterside (WS) slope. Pump and a 36-inch concrete standpipe on the WS. Originally installed under (Permit No. 1291, 1948 - Hansen) Permit described as a 14-inch concrete pipe. [Additional Reference(s): DWR Levee Logs, 1990. USACE Sacramento O&M Manual 516, April 1960 (Station 106+93)]. FS Date: 11/22/2016 12:58:04 PM					

Photo 1 of 1 : UCIP_SP_2017_50951_68488.jpg



Slide gate in CM riser on WS toe.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	05/02/2017 05/02/2017	Bob Duffey

LM Start	13.38	Rating **	M	Issue No.	92
LM End	13.38	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.678267 °	39.678267 °
				-121.778322 °	-121.778322 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:50954
DS_ID:1740
EP_NO: 17127
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 11/14/2016 Crossing appears to be in good condition. (DWR Sutter Yard- A Freitag) 5/11/2016 Ws flap gate is being overgrown by vegetation. 8/3/2015 Crossing appears in good condition. No noticeable issues to report. 11/24/2014 Flap gate needs to be dug out and unblocked. 6/4/2014 Same as last inspection. 11/13/2013 Flap gate is completely blocked from being able to open. 6/6/2013 Same as last inspection. 11/01/2012 Debris, soil, and vegetation creating minor blockage at flap gate outlet.
FIELD_STRUCT_DESC: 36-Inch corrugated metal drainage pipe through the levee, 12-feet below the crown. 4-foot by 4-foot concrete box and slide gate on the landside (LS). Concrete headwall and flap gate at the waterside (WS) outlet. (Permit No. 17127, 1999 - Butte County, Department of Public Works)
FS Date: 11/22/2016 1:02:51 PM

LM Start	13.38	Rating **	M	Issue No.	92 (cont)
LM End	13.38	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP_SP_2017_50954_68491.jpg



Slide gate at 4X4 concrete box on LS slope.

Photo 2 of 2 : UCIP_SP_2017_50954_68490.jpg



Concrete headwall and flap gate on WS slope below line of rip-rap.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	05/02/2017 05/02/2017	Bob Duffey

LM Start	13.40	Rating **	A/W	Issue No.	93
LM End	13.40	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.678550 °	39.678550 °
				-121.778339 °	-121.778339 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:50960
DS_ID:1679
EP_NO: N/A
Repair Type: No Action Needed
Crossing Status: Found
UCIP Comments: 11/14/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)5/11/2016 Crossing appears to be in good condition.8/3/2015 Crossing appears in good condition. No noticeable issues to report.11/25/2014 Same as last inspection.6/4/2014 Same as last inspection.11/13/2013 Same as last inspection.6/6/2013 Same as last inspection.
FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 14.5 feet below the crown. Concrete "U" shaped headwall on the waterside (WS). Flap gate on the WS. [Additional Reference(s): DWR Levee Logs, 1990. USACE Sacramento O&M Manual 516, April 1960 (Station 93+78)].
FS Date: 11/22/2016 1:05:24 PM

LM Start	13.40	Rating **	A/W	Issue No.	93 (cont)
LM End	13.40	Issue Type +	Ma	Location *	WS

Photo 1 of 3 : UCIP_SP_2017_50960_68531.jpg



Inlet relocated after bridge replacement away from LS toe.

Photo 2 of 3 : UCIP_SP_2017_50960_68530.jpg



Inlet 50-feet NW of levee crown.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	05/02/2017 05/02/2017	Bob Duffey

LM Start	13.40	Rating **	A/W	Issue No.	93 (cont)	
LM End	13.40	Issue Type +	Ma	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.678550 °	39.678550 °	
				-121.778339 °	-121.778339 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:50960 DS_ID:1679 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 11/14/2016 Crossing appears to be in good condition. (DWR Sutter Yard- A/Freitag)5/11/2016 Crossing appears to be in good condition.8/3/2015 Crossing appears in good condition. No noticeable issues to report.11/25/2014 Same as last inspection.6/4/2014 Same as last inspection.11/13/2013 Same as last inspection.6/6/2013 Same as last inspection. FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 14.5 feet below the crown. Concrete "U" shaped headwall on the waterside (WS). Flap gate on the WS. [Additional Reference(s): DWR Levee Logs, 1990. USACE Sacramento O&M Manual 516, April 1960 (Station 93+78)]. FS Date: 11/22/2016 1:05:24 PM						

Photo 3 of 3 : UCIP_SP_2017_50960_68533.jpg



Concrete U-shaped headwall and flap gate at WS slope.

LM Start	13.54	Rating **	M	Issue No.	61
LM End	13.54	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.680579 °	39.680579 °
				-121.778267 °	-121.778267 °
DWR ID	DWR_MA0005_02_f_2016_61				
Comment Code					
PR : Prunings					
Inspector Comment					

Photo 1 of 1 : SP_2017_MA0005_197_61_20170315_00036.jpg



View of the prunings along the landside toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	05/02/2017 05/02/2017	Bob Duffey

LM Start	13.76	Rating **	A/W	Issue No.	20
LM End	13.95	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.683630 °	39.686221 °
				-121.777916 °	-121.779051 °
DWR ID	DWR_MA0005_02_s_2012_20				
Comment Code					
V8 : Environmental Requirements.					
Inspector Comment					

No Photos

LM Start	13.78	Rating **	M	Issue No.	94
LM End	13.78	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.683896 °	39.683896 °
				-121.778183 °	-121.778183 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:50961 DS_ID:1680 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 11/14/2016 Unable to locate. (DWR Sutter Yard-AFreitag)5/11/2016 Unable to locate.8/3/2015 Unable to locate.11/25/2014 Unable to locate.6/4/2014 Same as last inspection. Unable to locate.11/13/2013 Unable to locate.6/6/2013 Boiler has been removed and pipe buried on LS. Unable to locate.11/01/2012 Pipe appears to be abandoned. FIELD_STRUCT_DESC: 8-inch steel irrigation pipe through the levee, 6.5 feet below the crown. Boiler attached to the landside (LS). [Additional Reference(s): DWR Levee Logs, 1990. USACE Sacramento O&M Manual 516, April 1960 (Station 73+27)]. FS Date: 11/22/2016 1:05:43 PM					

Photo 1 of 1 : UCIP_SP_2017_50961_68534.jpg



Pipe attached at boiler on LS toe.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	05/02/2017 05/02/2017	Bob Duffey

LM Start	13.94	Rating **	M	Issue No.	95
LM End	13.94	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.685961 °	39.685961 °
				-121.779041 °	-121.779041 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:50962 DS_ID:1681 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 11/14/2016 Appears abandoned (DWR Sutter Yard-AFreitag)5/11/216 Abandoned crossing8/3/2015 Pipe still appears abandoned.11/25/2014 Same as last inspection.6/4/2014 Same as last inspection.11/13/2013 Same as last inspection.6/6/2013 Same as last inspection.11/01/2012 Pipe appears to be abandoned. FIELD_STRUCT_DESC: *ABANDONED* 6-inch steel irrigation pipe through the levee, 7.1 feet below the crown. Siphon breaker in a corrugated metal riser on the landside (LS) slope. One corrugated metal cutoff wall. Pipe is open on both ends. [Additional Reference(s): DWR Levee Logs, 1990. USACE Sacramento O&M Manual 516, April 1960 (Station 65+52)]. FS Date: 11/22/2016 1:06:32 PM					

Photo 1 of 1 : UCIP_SP_2017_50962_68535.jpg



CM riser with siphon breaker on LS shoulder.

LM Start	14.13	Rating **	U	Issue No.	43
LM End	14.13	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.688715 °	39.688715 °
				-121.778345 °	-121.778345 °
DWR ID	DWR_MA0005_02_f_2014_43				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					

Photo 1 of 1 : SP_2017_MA0005_197_43_20170315_00019.jpg



View of the tilling into the landside slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	05/02/2017 05/02/2017	Bob Duffey

LM Start	14.33	Rating **	U	Issue No.	25
LM End	14.33	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.691580 °	39.691580 °
				-121.779254 °	-121.779254 °
DWR ID	DWR_MA0005_02_s_2012_25				
Comment Code					
BU : Building					
Inspector Comment					
Unpermitted structure.					

Photo 1 of 1 : SP_2017_MA0005_197_25_20170315_00010.jpg



View of the buildings at the landside toe.

LM Start	14.39	Rating **	M	Issue No.	38
LM End	14.39	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.692284 °	39.692284 °
				-121.779394 °	-121.779394 °
DWR ID	DWR_MA0005_02_s_2016_38				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Fallen trees on W/S slope of levee.					

Photo 1 of 1 : SP_2017_MA0005_197_38_20170315_00014.jpg



5/5/2016: Remove fallen tree from W/S slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	05/02/2017 05/02/2017	Bob Duffey

LM Start	14.46	Rating **	A/W	Issue No.	96
LM End	14.46	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.693331 °	39.693331 °
				-121.779556 °	-121.779556 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:50963
DS_ID:1682
EP_NO: N/A
Repair Type: No Action Needed
Crossing Status: Found
UCIP Comments: 11/14/2016 Crossing appears to be in good condition. (DWR Sutter Yard- A Freitag) 5/11/2016 Crossing appears to be in good condition. 8/3/2015 Crossing appears in good condition. No noticeable issues to report. 11/25/2014 Same as last inspection. 6/4/2014 Same as last inspection. 11/13/2013 Same as last inspection. 6/6/2013 Same as last inspection.
FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 7.2 feet below the crown. Concrete "U" shaped headwall and grouted spillway on the waterside (WS). Slide gate in a 48-inch concrete standpipe on the landside (LS). Flap gate on the WS.
[Additional Reference(s): DWR Levee Logs, 1990. USACE Sacramento O&M Manual 516, April 1960 (Station 37+10)].
FS Date: 11/22/2016 1:07:21 PM

LM Start	14.46	Rating **	A/W	Issue No.	96 (cont)
LM End	14.46	Issue Type +	Ma	Location *	WS

Photo 1 of 3 : UCIP_SP_2017_50963_68544.jpg



Outlet at U-shaped headwall on WS toe.

Photo 2 of 3 : UCIP_SP_2017_50963_68543.jpg



Concrete lined channel on LS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	05/02/2017 05/02/2017	Bob Duffey

LM Start	14.46	Rating **	A/W	Issue No.	96 (cont)	
LM End	14.46	Issue Type +	Ma	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			39.693331 °		39.693331 °
				-121.779556 °		-121.779556 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:50963						
DS_ID:1682						
EP_NO: N/A						
Repair Type: No Action Needed						
Crossing Status: Found						
UCIP Comments: 11/14/2016 Crossing appears to be in good condition. (DWR Sutter Yard- A Freitag)5/11/2016 Crossing appears to be in good condition.8/3/2015 Crossing appears in good condition. No noticeable issues to report.11/25/2014 Same as last inspection.6/4/2014 Same as last inspection.11/13/2013 Same as last inspection.6/6/2013 Same as last inspection.						
FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 7.2 feet below the crown. Concrete "U" shaped headwall and grouted spillway on the waterside (WS). Slide gate in a 48-inch concrete standpipe on the landside (LS). Flap gate on the WS. [Additional Reference(s): DWR Levee Logs, 1990. USACE Sacramento O&M Manual 516, April 1960 (Station 37+10)].						
FS Date: 11/22/2016 1:07:21 PM						

Photo 3 of 3 : UCIP_SP_2017_50963_68542.jpg



Concrete standpipe and slide gate on LS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	05/02/2017 05/02/2017	Bob Duffey

LM Start	14.47	Rating **	A/W	Issue No.	97
LM End	14.47	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.693406 °	39.693406 °
				-121.779583 °	-121.779583 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:50964
DS_ID:1683
EP_NO: N/A
Repair Type: No Action Needed
Crossing Status: Found
UCIP Comments: 11/14/2016 Crossing appears to be in good condition. (DWR Sutter Yard- A Freitag) 5/11/2016 Crossing appears to be in good condition. 8/3/2015 Crossing appears in good condition. No noticeable issues to report. 6/6/2013 Same as last inspection. 11/13/2013 Same as last inspection. 6/4/2014 Same as last inspection. 11/25/2014 Same as last inspection.
FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 14.3 feet below the crown. Concrete "U" headwalls on both the landside (LS) and the waterside (WS). Flap gate on the WS. Inlet downhill from a concrete lined channel at the low-point on the LS toe. [Additional Reference(s): DWR Levee Logs, 1990. USACE Sacramento O&M Manual 516, April 1960 (Station 36+85)].
FS Date: 11/22/2016 1:07:52 PM

LM Start	14.47	Rating **	A/W	Issue No.	97 (cont)
LM End	14.47	Issue Type +	Ma	Location *	WS

Photo 1 of 2 : UCIP_SP_2017_50964_68541.jpg



Inlet at LS toe.

Photo 2 of 2 : UCIP_SP_2017_50964_68540.jpg



Outlet at WS toe with flap gate and concrete U-shaped headwall.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	05/02/2017 05/02/2017	Bob Duffey

LM Start	15.00	Rating **	M	Issue No.	98
LM End	15.00	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.700903 °	39.700903 °
				-121.779039 °	-121.779039 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:50967
DS_ID:1685
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 11/14/2016 Good condition- needs a cover for the riser. (DWR Sutter Yard- A Freitag) 5/11/2016 Needs a cover for riser. The rest of the crossing appears to be in good condition. 8/3/2015 Crossing appears in good condition but needs a cover made for the riser. 11/25/2014 Same as last inspection. 6/4/2014 Same as last inspection. 11/13/2013 Same as last inspection. 6/6/2013 Same as last inspection.
FIELD_STRUCT_DESC: 42-inch steel irrigation pipe (siphon) through the levee, 10 feet below the crown. Slide gate in a 54-inch corrugated metal riser on the waterside (WS) slope. 5 foot by 8 foot Concrete distribution box on the landside (LS). Two corrugated metal cutoff walls installed within the levee. [Additional Reference(s): DWR Levee Logs, 1990. USACE Sacramento O&M Manual 516, April 1960 (Station 8+30)].
FS Date: 11/22/2016 1:10:13 PM

LM Start	15.00	Rating **	M	Issue No.	98 (cont)
LM End	15.00	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP_SP_2017_50967_68570.jpg



Concrete distribution box with slide gate on LS toe.

Photo 2 of 2 : UCIP_SP_2017_50967_68569.jpg



CMP riser on WS shoulder with slide gate.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	05/02/2017 05/02/2017	Bob Duffey

LM Start	15.26	Rating **	M	Issue No.	99
LM End	15.26	Issue Type +	En	Location *	WS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		39.704409°	39.704409°	
			-121.777803°	-121.777803°	
DWR ID					

Comment Code

Inspector Comment

FS_ID:50968
DS_ID:1686
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 11/14/2016 Still only WS standpipe visible. (DWR Sutter Yard- AFreitag)5/11/2016 Only WS standpipe was visible.8/3/2015 Only able to locate the standpipe on the WS.11/25/2014 Same as last inspection.6/4/2014 Same as last inspection.11/13/2013 Same as last inspection.6/6/2013 Same as last inspection.
FIELD_STRUCT_DESC: 12-inch steel irrigation pipe (siphon) through the levee, 10 feet below the crown. Slide gate in 36-inch corrugated metal riser on the waterside (WS) slope. 30-inch concrete standpipe at the landside (LS) toe. [Additional Reference(s): DWR Levee Logs, 1990. USACE Sacramento O&M Manual 516, April 1960 (Station 145+53)].
FS Date: 11/22/2016 1:11:15 PM

LM Start	15.26	Rating **	M	Issue No.	99 (cont)
LM End	15.26	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP_SP_2017_50968_68572.jpg



CMP riser on WS slope with slide gate.

Photo 2 of 2 : UCIP_SP_2017_50968_68571.jpg



Concrete riser on LS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	05/02/2017 05/02/2017	Bob Duffey

LM Start	15.47	Rating **	M	Issue No.	100
LM End	15.47	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.707544 °	39.707544 °
				-121.777701 °	-121.777701 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:50969 DS_ID:1687 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 11/14/2016 Good condition- needs a cover for standpipe. (DWR Sutter Yard- AFreitag)5/11/2016 Needs a lcover for riser. The rest of the crossing appears in good condition.8/3/2015 Crossing is in good condition but needs a cover made for the riser.11/25/2014 Same as last inspection.6/4/2014 Same as last inspection.11/13/2013 Same as last inspection.6/6/2013 Same as last inspection. Need to construct covers for top of standpipe.11/02/2012 Good candidate for video inspection. FIELD_STRUCT_DESC: 1 of 2: 54-inch corrugated metal irrigation pipe (siphon) through the levee, 17.8 feet below the crown. Slide gate in a 66-inch corrugated metal riser on the waterside (WS). Concrete headwall and irrigation ditch at the landside (LS) toe. Edgar Slough riser units in the floodway. [Additional Reference(s): DWR Levee Logs, 1990. USACE Sacramento O&M Manual 516, April 1960 (Station 132+00)]. FS Date: 11/22/2016 1:12:18 PM					

LM Start	15.47	Rating **	M	Issue No.	100 (cont)
LM End	15.47	Issue Type +	En	Location *	WS

Photo 1 of 3 : UCIP_SP_2017_50969_68575.jpg



66-inch CMP riser on WS shoulder with slide gate.

Photo 2 of 3 : UCIP_SP_2017_50969_68574.jpg



Irrigation ditch at LS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	05/02/2017 05/02/2017	Bob Duffey

LM Start	15.47	Rating **	M	Issue No.	100 (cont)	
LM End	15.47	Issue Type +	En	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			39.707544 °		39.707544 °
				-121.777701 °		-121.777701 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:50969 DS_ID:1687 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 11/14/2016 Good condition- needs a cover for standpipe. (DWR Sutter Yard- AFreitag)5/11/2016 Needs a lcover for riser. The rest of the crossing appears in good condition.8/3/2015 Crossing is in good condition but needs a cover made for the riser.11/25/2014 Same as last inspection.6/4/2014 Same as last inspection.11/13/2013 Same as last inspection.6/6/2013 Same as last inspection. Need to construct covers for top of standpipe.11/02/2012 Good candidate for video inspection. FIELD_STRUCT_DESC: 1 of 2: 54-inch corrugated metal irrigation pipe (siphon) through the levee, 17.8 feet below the crown. Slide gate in a 66-inch corrugated metal riser on the waterside (WS). Concrete headwall and irrigation ditch at the landside (LS) toe. Edgar Slough riser units in the floodway. [Additional Reference(s): DWR Levee Logs, 1990. USACE Sacramento O&M Manual 516, April 1960 (Station 132+00)]. FS Date: 11/22/2016 1:12:18 PM						

Photo 3 of 3 : UCIP_SP_2017_50969_68573.jpg



Concrete headwall on LS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	05/02/2017 05/02/2017	Bob Duffey

LM Start	15.48	Rating **	M	Issue No.	101
LM End	15.48	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.707569 °	39.707569 °
				-121.777705 °	-121.777705 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:50970 DS_ID:16316 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 11/14/2016 Good condition- needs a cover for standpipe. (DWR Sutter Yard- AFreitag)5/11/2016 Needs a lcover for riser. The rest of the crossing appears in good condition.8/3/2015 Crossing appears in good condition but needs a cover made for the riser.11/25/2014 Same as last inspection.6/4/2014 Same as last inspection.11/13/2013 Same as last inspection.6/6/2013 Same as last inspection. Need to construct cover for top of standpipe.11/01/2012 Good candidate for video inspection. FIELD_STRUCT_DESC: 2 of 2: 54-inch corrugated metal irrigation pipe through the levee, 17.8 feet below the crown. Slide gate in a 66-inch corrugated metal riser on the waterside (WS). A concrete headwall and an irrigation ditch are located at the landside (LS) toe. Edgar Slough riser units located in the floodway. [Additional Reference(s): DWR Levee Logs, 1990. USACE Sacramento O&M Manual 516, April 1960 (Station 132+00)]. FS Date: 11/22/2016 1:13:26 PM					

Photo 1 of 3 : UCIP_SP_2017_50970_68579.jpg



Concrete headwall at LS toe.

LM Start	15.48	Rating **	M	Issue No.	101 (cont)
LM End	15.48	Issue Type +	En	Location *	WS

Photo 2 of 3 : UCIP_SP_2017_50970_68578.jpg



Related structure out in floodway.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	05/02/2017 05/02/2017	Bob Duffey

LM Start	15.48	Rating **	M	Issue No.	101 (cont)
LM End	15.48	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.707569 °	39.707569 °
				-121.777705 °	-121.777705 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:50970 DS_ID:16316 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 11/14/2016 Good condition- needs a cover for standpipe. (DWR Sutter Yard- AFreitag)5/11/2016 Needs a lcover for riser. The rest of the crossing appears in good condition.8/3/2015 Crossing appears in good condition but needs a cover made for the riser.11/25/2014 Same as last inspection.6/4/2014 Same as last inspection.11/13/2013 Same as last inspection.6/6/2013 Same as last inspection. Need to construct cover for top of standpipe.11/01/2012 Good candidate for video inspection. FIELD_STRUCT_DESC: 2 of 2: 54-inch corrugated metal irrigation pipe through the levee, 17.8 feet below the crown. Slide gate in a 66-inch corrugated metal riser on the waterside (WS). A concrete headwall and an irrigation ditch are located at the landside (LS) toe. Edgar Slough riser units located in the floodway. [Additional Reference(s): DWR Levee Logs, 1990. USACE Sacramento O&M Manual 516, April 1960 (Station 132+00)]. FS Date: 11/22/2016 1:13:26 PM					

Photo 3 of 3 : UCIP_SP_2017_50970_68577.jpg



66-inch CMP riser on WS shoulder.

LM Start	16.05	Rating **	M	Issue No.	39
LM End	16.05	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			39.714016 °	39.714016 °
				-121.782317 °	-121.782317 °
DWR ID	DWR_MA0005_02_f_2016_39				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Backfill and compact the rodent holes.					

Photo 1 of 1 : SP_2017_MA0005_197_39_20170315_00015.jpg



View of the rodent holes along the landside slope.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	05/02/2017 05/02/2017	Bob Duffey

LM Start	16.17	Rating **	M	Issue No.	74
LM End	16.17	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.715680 °	39.715680 °
				-121.783037 °	-121.783037 °
DWR ID	DWR_MA0005_02_s_2017_74				
Comment Code					
DE : Debris					
Inspector Comment					
Remove the debris from the water side slope and toe.					

Photo 1 of 1 : SP_2017_MA0005_197_74_20170508_00111.jpg



View of the debris along the waterside slope and toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2017 Levee Inspection Results

Sutter Maintenance Yard Maintenance Area 0005

Waterway			Bank	Unit Miles
Unit No. 03 Little Chico Creek Diversion			Left	1.49
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	5/2/2017 - 5/2/2017			
DWR Inspector	Bob Duffey			
Accompanied By	Shawn Freitag Sutter Maintenance Yard			

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Little Chico Creek Diversion	Left	1.49	05/02/2017 05/02/2017	Bob Duffey

LM Start	0.51	Rating **	A	Issue No.	2
LM End	0.51	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.723773 °	39.723773 °
				-121.780468 °	-121.780468 °
DWR ID	DWR_MA0005_03_s_2017_2				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
The vegetation was removed from both slopes.					

Photo 1 of 1 : SP_2017_MA0005_198_2_20170508_00001.jpg



View of no vegetation on both slopes.

LM Start	1.44	Rating **	U	Issue No.	3
LM End	1.44	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.732942 °	39.732942 °
				-121.772445 °	-121.772445 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:50111					
DS_ID:1762					
EP_NO: 16381					
Repair Type: Urgent					
Crossing Status: Not Found					
UCIP Comments: 11/13/2013 Unable to locate. (DWR Sutter Yard - afreitag)6/6/2013 Same as last inspection. Unable to locate. (DWR Sutter Yard - afreitag)11/02/2012 Gasline not marked. Notes in permit indicate installation occurred. Owner needs to install markers. (DWR UCIP - wwylie)					
FIELD_STRUCT_DESC: 1 of 2: 2-inch gas pipe of an unknown material through the levee, at an unknown depth below the crown, not found. (Permit No. 16381, 1995 - Meyer).					
FS Date: 11/14/2013 1:28:00 PM					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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